The solution set of the equation $x^{\frac{3}{2}} = \frac{1}{4}$ is

- $\{\frac{1}{4}\}$
- $\{\frac{1}{8}\}$
- $\{\frac{-1}{8}\}$
- $\{\frac{-1}{8}, \frac{1}{8}\}$

B

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The degree of the quotient of the division $(2x^3 - 4x^2 + 6x - 5) \div (x - 3)$ equals:

- 9
- 7
- 8
- 6

A

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Given that $f(x) = \log_{\frac{1}{2}}(x+2)$, then $f(2) =$

- $\frac{1}{4}$
- -2
- 2
- $\frac{1}{2}$

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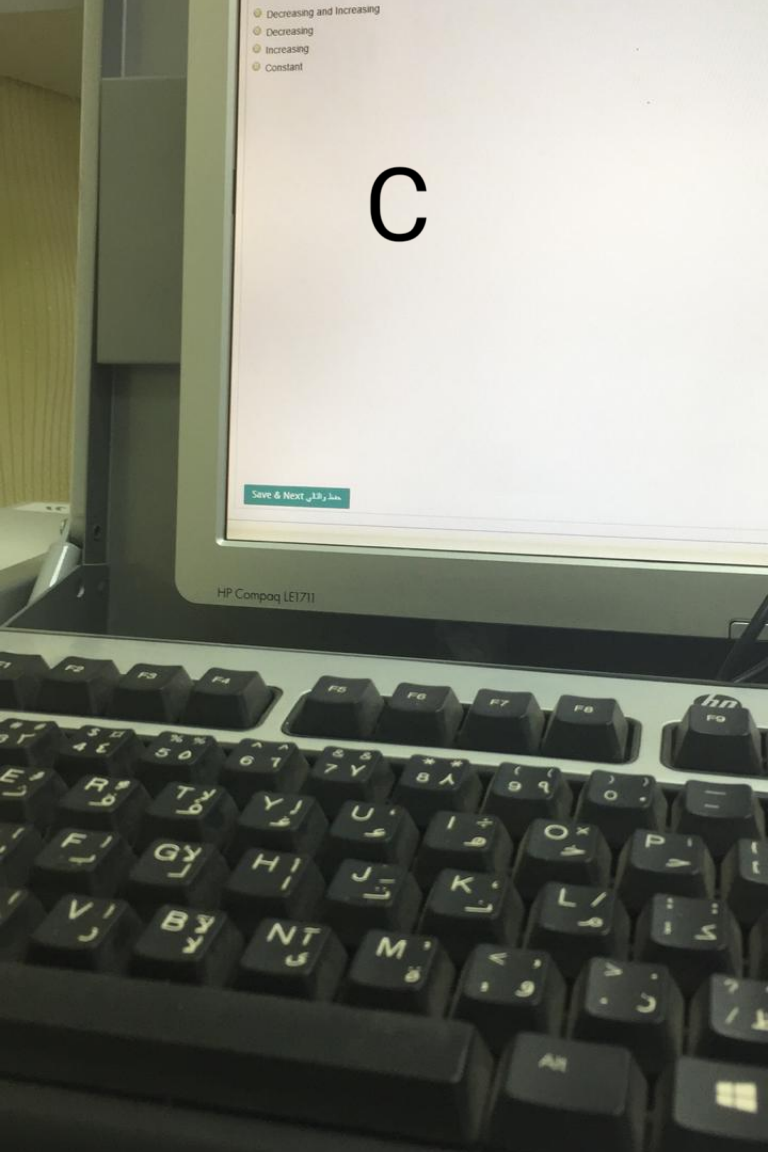
Decreasing and Increasing
Decreasing
Increasing
Constant
C
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Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

D

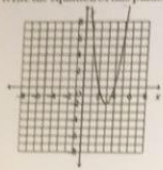
Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

A

Write the equation of this parabola in vertex form.



- $y = (x-3)^2 - 2$
- $y = 2(x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x+3)^2 + 2$

D

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estion No. 13

ne horizontal asymptote to the graph of $f(x) = 3^{x-1} + 2$.

y = -2

y = 3

x = -2

y = 2

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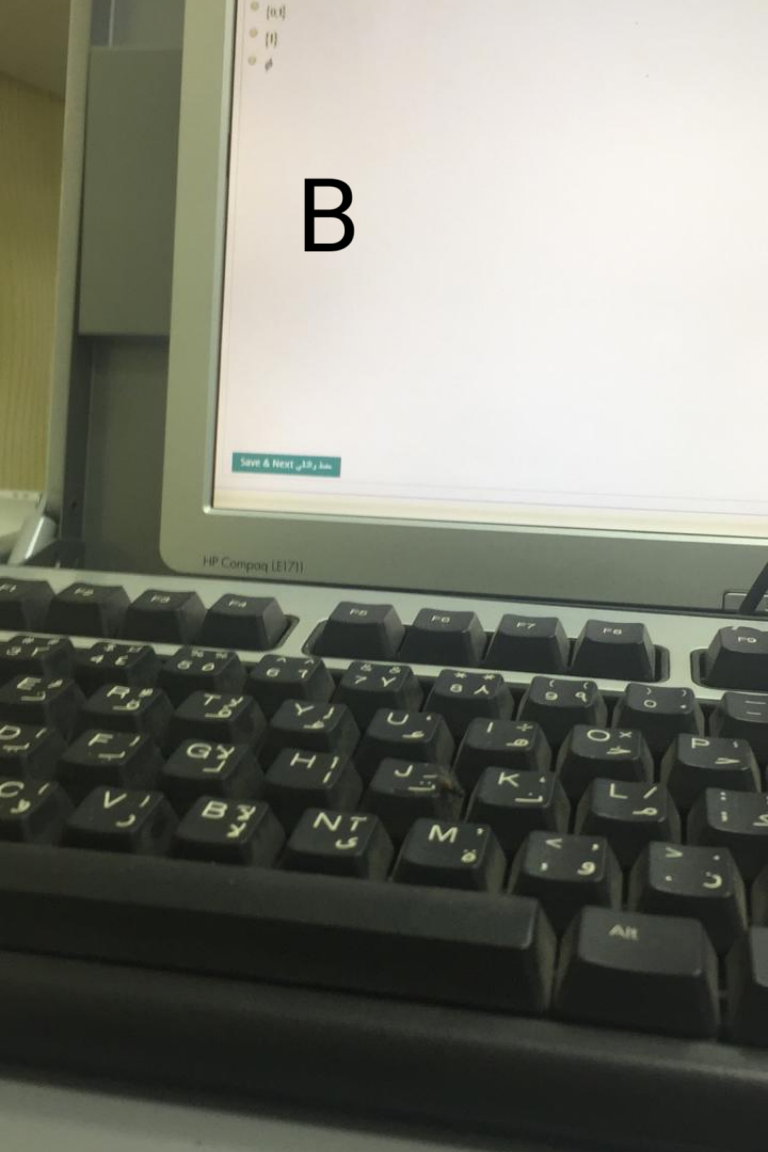
B
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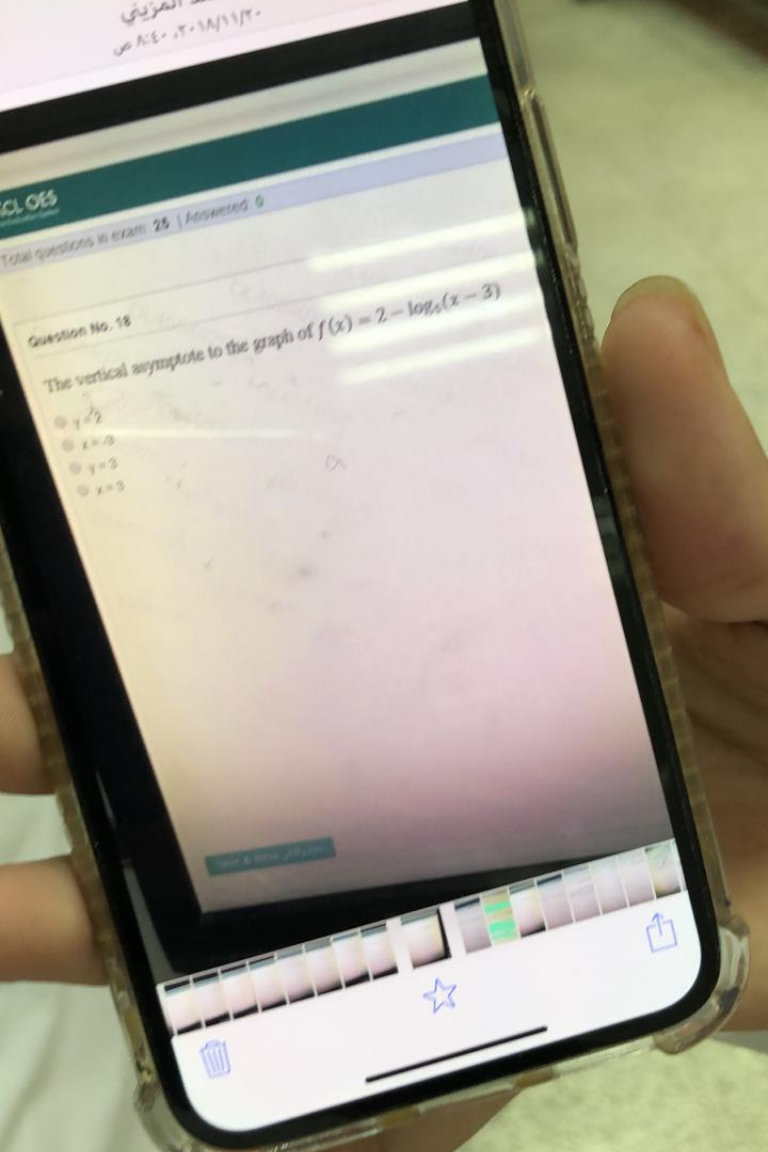
HP Compaq LE1711
Alt

Question No. 6

If $f(x) = \frac{3}{x-2}$ and $g(x) = \frac{4}{x+5}$. Determine the domain of the product of $f(x)$ and $g(x$

- $x \in (-\infty, -5) \cup (2, \infty)$
- $x \in (-\infty, \infty)$
- $x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$
- $x \in (-5, 2)$

C


Total questions in exam: 25 | Answered: 0
Question No. 18
The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$
$x = 2$
$x = 5$
$y = 3$
$x = 3$

Total questions in exam: **25** | Answered: **8**

Question No. 8

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $x = 3^{2-y}$
- $x = 3^{y-2}$
- $y = 3^{2-x}$
- $y = 3^{x-2}$

The degree of the quotient of the division $(2x^3 - 4x^2 + 6x - 5) \div (x - 3)$ equals:

- 9
- 7
- 8
- 6

A

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MACL OES

Math_Quiz2_Sem1

Total questions in exam: 25 | Answered: 8

Question No. 16

Let $f(x) = \frac{1}{x^2-3x+2}$ and $g(x) = \sqrt{16-x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R}\backslash\{2,3\}$
- $(-4,4)$
- $(-4,2)\cup(2,3)\cup(3,4)$
- $(-4,2)\cup(2,4)$

C

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Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt{x}$	$\sqrt[3]{}$	|x|

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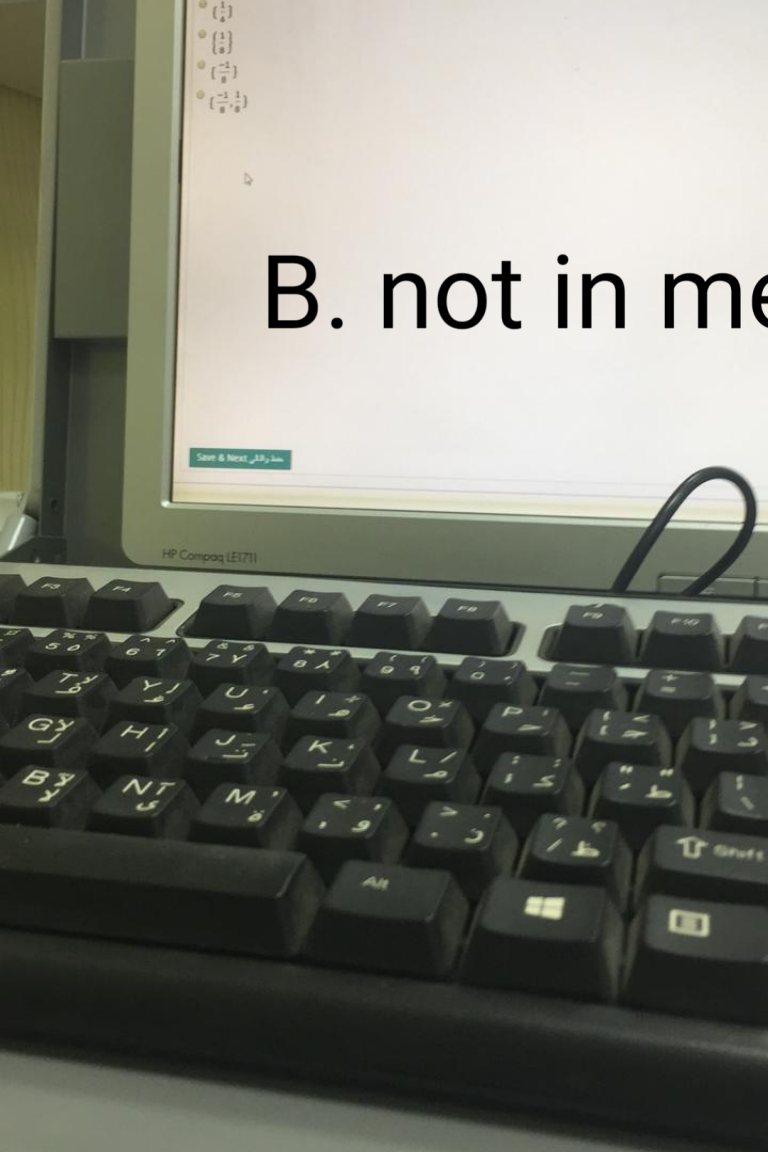
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Given that $f(x) = \log_{\frac{1}{2}}(x+2)$, find $f(6)$

- $\frac{1}{4}$
- -2
- 2
- $\frac{1}{2}$

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$(-\infty, 2a + \frac{1}{b})$

$[2a + \frac{1}{b}, \infty)$

$(-\infty, 2a + \frac{1}{b}]$

$(-\infty, 2a - \frac{1}{b}]$

A

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Question No. 23

The solution set of the following equation: $|2-x|=|3x-2|$ is

- $\{0\}$
- $\{0,1\}$
- $\{1\}$
- ϕ

B

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Question No. 24

If $f(x) = -3(x + 1)^2 - 5$, then the vertex of the graph of f is

- (-3, -5)
- (1, 5)
- (-1, 5)
- (-1, -5)

D

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Question No. 8

A function is one-to-one if

- every horizontal line intersects the graph at most once
- every vertical line intersects the graph at most once
- every horizontal line intersects the graph twice
- every vertical line intersects the graph twice

A

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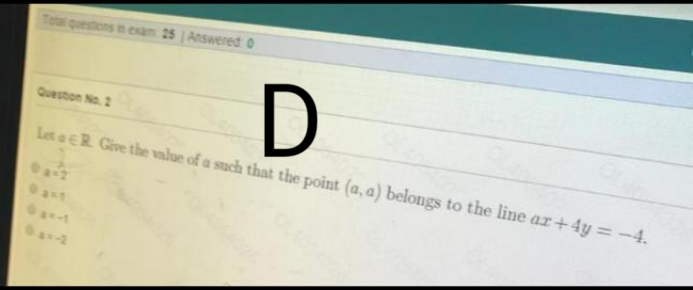
Total questions in exam: 25 | Answered: 0
Question No. 2
D
Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.
a=2
a=1
a=-1
a=-2

Question No. 6

Let $b \in \mathbb{R}\backslash\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y = 3$.

- $b = 3$
- $b = 1$
- $b = -3$
- $b = 2$

B

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Question No. 21

If x-4 is a factor of the polynomial f(x) then

- $f(0) = -4$
- $f(-4) = 0$
- $f(4) = 0$
- $f(0) = 4$

C

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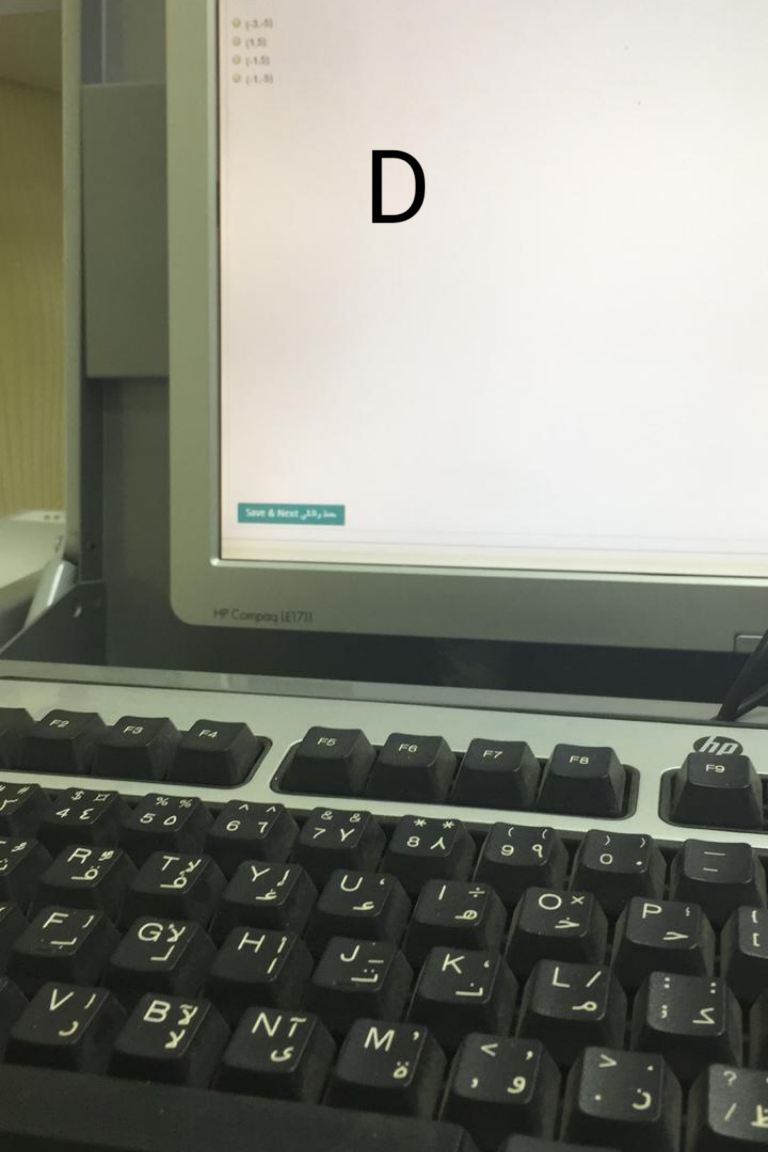
D
Save & Next
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Question No. 9

Solve $-0.2 \leq 0.7 - x \leq 1.8$

- no solution
- $-2.5 \leq x \leq 0.5$
- $-1.1 \leq x \leq 0.9$
- $-0.9 \leq x \leq 1.1$

C

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Total questions in exam: 25 | Answered: 16

Question No. 12

Let $a \in \mathbb{R}\setminus\{1\}$. Find the value of a such that the quotient of dividing $f(x) = x^3 + (1-a)x^2 + a^2x - 1$ by $x - a$ is $x^2 + x + 2$.

- $a = -1$
- $a = 2$
- $a = -2$
- $a = 1$

C

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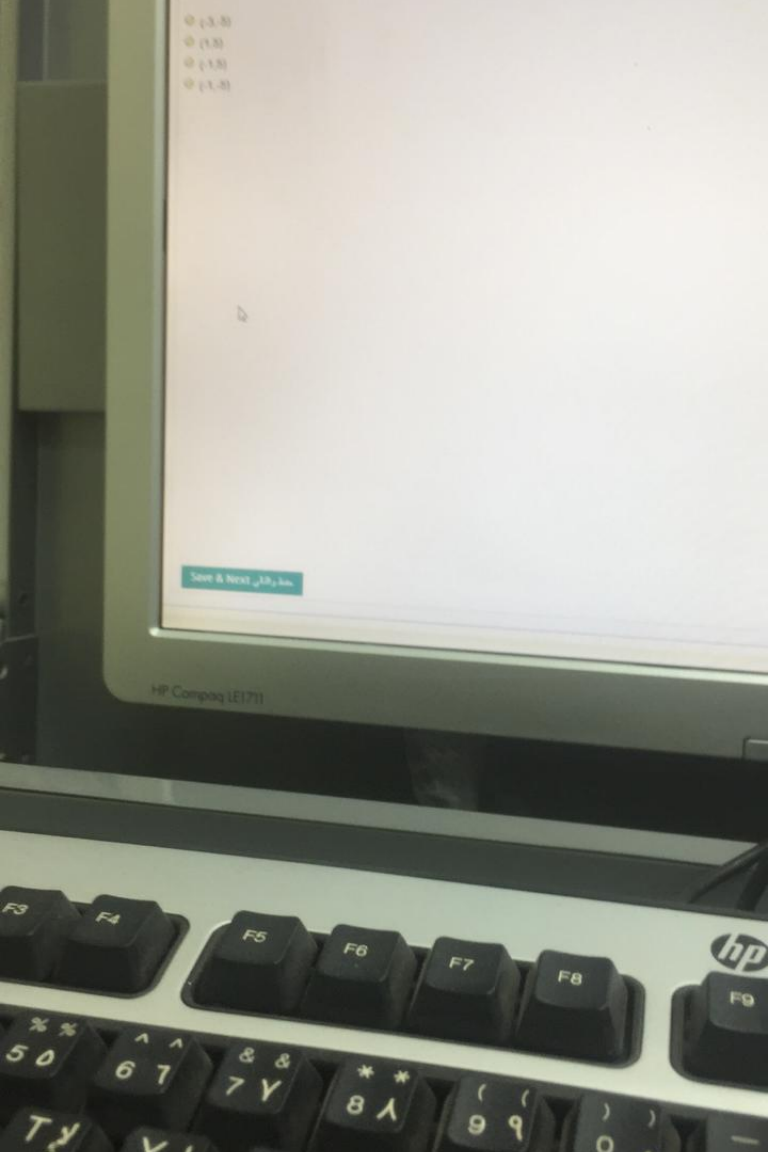
(-3,-3)
(1,3)
(-1,3)
(-1,-3)
Save & Next
HP Compaq LE1711
F3
F4
F5
F6
F7
F8
F9
hp

Question No. 23

Determine the solution set of the following inequality

$$-4 - x < -x$$

- $s = (-\infty, -4)$
- $s = (-\infty, \infty)$
- $s = (4, \infty)$
- $s = \phi$

B

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Total questions in exam: 25 | Answered: 5

Question No. 13

The equation $y = 3^{x-1}$ can be written as

- $x = 1 + \log_3 y$
- $x = \log_3 y$
- $x = \log_3(y + 1)$
- $y = 1 + \log_3 x$

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Question No. 16

Let $a \in \mathbb{R}$. Give the value of a such that the point $(1, 1)$ belongs to both lines $ax + a^2y = 6$ and $a^2x + 2y = 11$.

- a = 3
- a = -1
- a = -3
- a = 1

C

Question No. 6

Let $b \in \mathbb{R}\backslash\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y = 3$.

- b = 3
- b = 1
- b = -3
- b = 2

B

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Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

D

The equation $x = 3^y - 1$ is equivalent to the equation

- $y = \log_3(x+1)$
- $y = \log_3(x-1)$
- $x = \log_3(y+1)$
- $x = \log_3(y-1)$

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Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

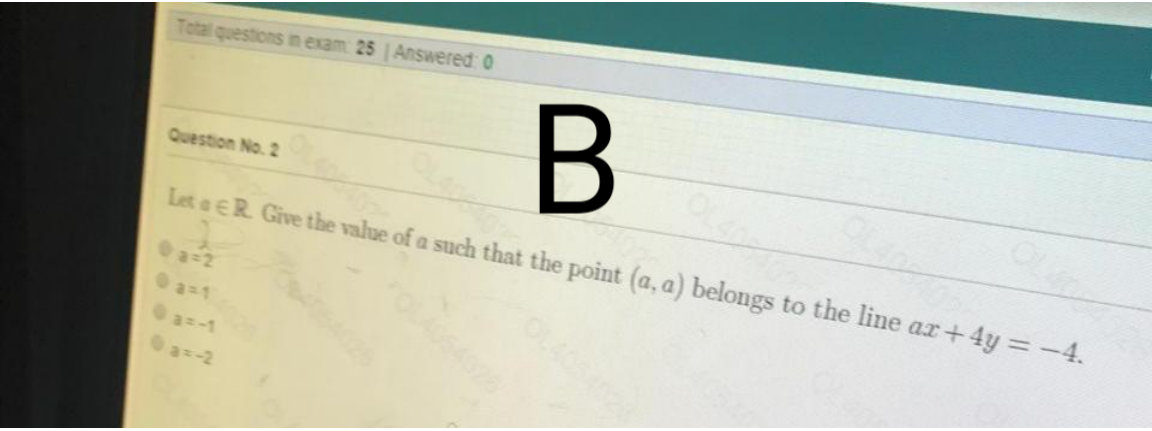
D

Question No. 10

If 5 is a zero of $f(x) = x^3 - 8x^2 + 11x + 20$, then other zeros are

- -4, -1
- -4, 1
- 4 ,1
- 4 , -1

D


Total questions in exam: 25 | Answered: 0
Question No. 2
B
Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.
a = 2
a = 1
a = -1
a = -2

No. 25

$\mathbb{R}\setminus\{\frac{1}{4}\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx -$

Let $a \in \mathbb{R}$ and $f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder theorem to evaluate $f(1+i)$.

- $f(1+i) = -4 + (a-2)i$
- $f(1+i) = -4 + (a+2)i$
- $f(1+i) = a + 2i$
- $f(1+i) = (a-2)i$

Total questions in exam: **25** | Answered: **0**

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

D

Question No. 11

The solution set of $-4|6 - x| + 4 \leq -20$ is

- $(-\infty, 10] \cup [2, \infty)$
- $(-\infty, 2] \cup [10, \infty)$
- $(-\infty, 0] \cup [12, \infty)$
- $(-\infty, 12] \cup [0, \infty)$

C

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Total questions in exam: 25 | Answered: 0

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

B

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Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

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Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

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Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

C

Save & Next

Question No. 14

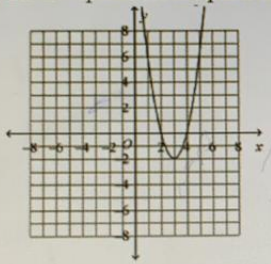
If $f(x) = \sqrt{x+2}$ and $g(x) = 3x - 5$. Find $h(x) = (g \circ f)(x)$.

- $h(x) = \sqrt{3x-3}$
- $h(x) = 3\sqrt{x+2} - 5$
- $h(x) = 3\sqrt{x-1}$
- $h(x) = 3\sqrt{x} + 3$

B

Question No. 22

Write the equation of this parabola in vertex form.



- $y = 2(x+3)^2 + 2$
- $y = (x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x-3)^2 - 2$

D

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Question No. 25

Determine the solution set of the following inequality

$$-4-x<-x$$

- $s=(-\infty,-4)$
- $s=(-\infty,\infty)$
- $s=(4,\infty)$
- $s=\phi$

B

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Question No. 6

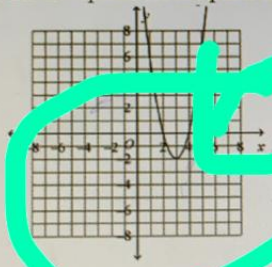
If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- -12
- $-2\sqrt{3}$
- $2\sqrt{3}$
- undefined

D

Question No. 22

Write the equation of this parabola in vertex form.



- $y = 2($
- $y = (x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x-3)^2 - 2$

Save & Next حفظ والتالي

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Total questions in exam: 25 | Answered:

Question No. 1

Given that $f(x) = 6x^3 + x^2 + 5x - 12$, then one of the following is a factor of $f(x)$

- $x-2$
- $x+1$
- $x+2$
- $x-1$

D

$+5x+1$

$h(x)=2x^2-5x-3$

$h(x)=-2x^2+5x+3$

$h(x)=2x^2-5x+1$

$10x+6$. Find $h(x)=f(x)-g(x)$.

B

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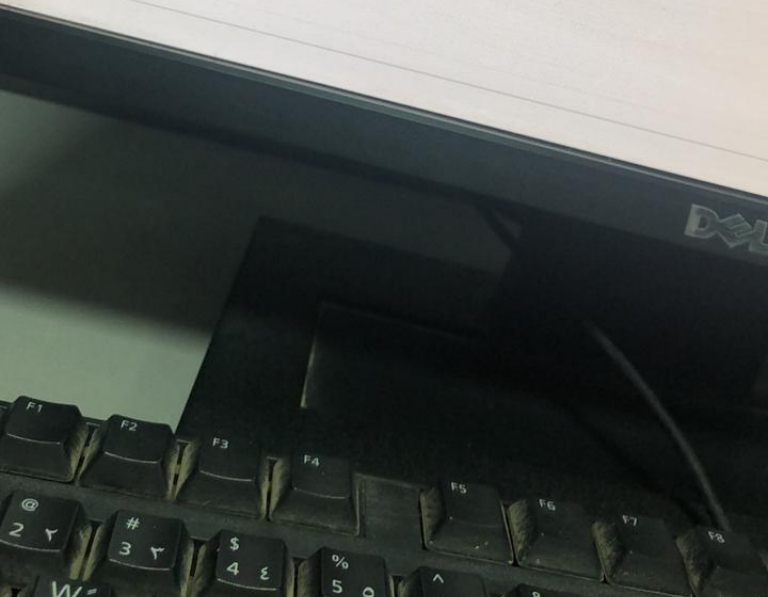


$f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder the

- $f(1+i) = (a-2)i$
- $f(1+i) = a+2i$
- $f(1+i) = -4+(a-2)i$
- $f(1+i) = -4+(a+2)i$

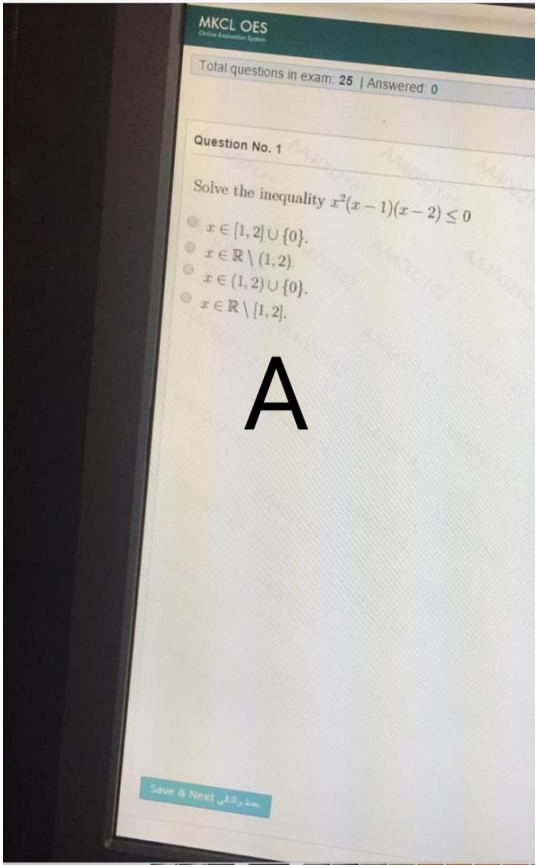
Save & Next حفظ والتالي

Question No. 12

Let $a > 0$. The intervals on which the function $f(x) = a(x-h)^2+k$ increases and decreases are

- Increasing on $[h, \infty)$, decreasing on $(-\infty, h]$
- Increasing on $(-\infty, h)$, decreasing on $(-\infty, k)$
- Increasing on $(-\infty, -h)$, decreasing on $[k, \infty)$
- Increasing on$(-\infty, k)$, decreasing on (k, ∞)

A



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Math_Quiz

Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

D

Save & Next

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Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

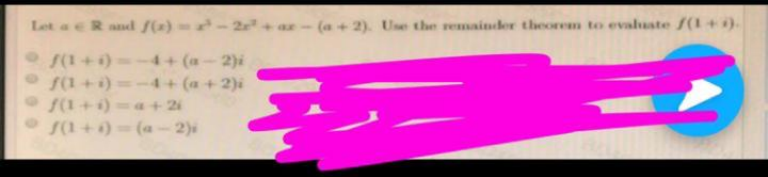
Question No. 12

Let $a > 0$. The intervals on which the function $f(x) = a(x-h)^2+k$ increases and decreases are

- Increasing on $[h, \infty)$, decreasing on $(-\infty, h]$
- Increasing on $(-\infty, h)$, decreasing on $(-\infty, k)$
- Increasing on $(-\infty, -h)$, decreasing on $[k, \infty)$
- Increasing on$(-\infty, k)$, decreasing on (k, ∞)

Let $a \in \mathbb{R}$ and $f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder theorem to evaluate $f(1+i)$.

- $f(1+i) = -4 + (a-2)i$
- $f(1+i) = -4 + (a+2)i$
- $f(1+i) = a + 2i$
- $f(1+i) = (a-2)i$



MKCL OES

Math_QuizZ

Total questions in exam: 25 | Answered: 11

Question No. 25

If $f(x)$ is a polynomial such that the remainder of the division $f(x) + (x - 1)$ equals 6 then

- $f(-1) = 6$
- $f(6) = -1$
- $f(1) = 6$
- $f(6) = 1$

C

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Question No. 24

Let $a > 0$. The intervals on which the function $f(x) = a(x-h)^2 + k$ increases and decreases are

- Increasing on $(-\infty, -h)$, decreasing on $[k, \infty)$
- Increasing on$(-\infty, k)$, decreasing on (k, ∞)
- Increasing on $[h, \infty)$, decreasing on $(-\infty, h]$
- Increasing on $(-\infty, h)$, decreasing on $(-\infty, k)$

C

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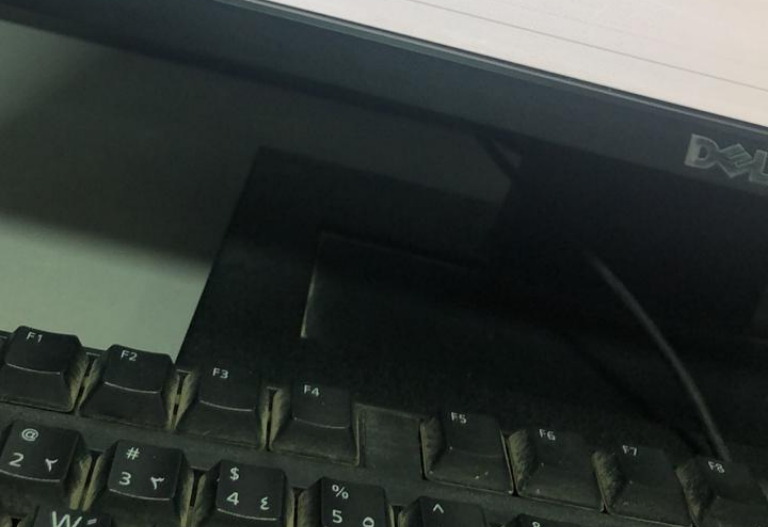
$+5x+1$

$6x+6$. Find $h(x)=f(x)-g(x)$.

- $h(x)=2x^2-5x-3$
- $h(x)=-2x^2+5x+3$
- $h(x)=2x^2-5x+1$

Save & Next حفظ والتالي



$f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder the

- $f(1+i) = (a-2)i$
- $f(1+i) = a+2i$
- $f(1+i) = -4+(a-2)i$
- $f(1+i) = -4+(a+2)i$

Save & Next حفظ والتالي

Question No. 25

If x-2 is a factor of the polynomial f(x) then

- $f(0) = 2$
- $f(2) = 0$
- $f(0) = -2$
- $f(-2) = 0$

B

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Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 16

Which of the following functions is not one-to-one

- F= { (3,5), (6,0), (7,-2), (1,-5) }
- F= { (4,-3), (1,0), (5,-2), (1,3) }
- F= { (-3,-2), (0,4), (3,2), (1,-5) }
- F= { (6,-3), (0,5), (4,-2), (1,-3) }

B

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Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- $a = 2$
- $a = 1$
- $a = -1$
- $a = -2$

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Online Evaluation System

Total questions in exam: 25 | Answered: 15

Question No. 13

The graph of $f(x) = -\log_2 x$ is

- Increasing
- Constant
- Decreasing
- Decreasing and Increasing

Question No. 6

Let $b \in \mathbb{R}\backslash\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y = 3$.

- $b = 3$
- $b = 1$
- $b = -3$
- $b = 2$

Save & Next

HP Compaq LE1711

Question No. 1

Solve the inequality $x^2(x-1)(x-2) \leq 0$

- $x \in [1,2] \cup \{0\}$.
- $x \in \mathbb{R} \setminus (1,2)$.
- $x \in (1,2) \cup \{0\}$.
- $x \in \mathbb{R} \setminus [1,2]$.

A

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- $a = 2$
- $a = 1$
- $a = -1$
- $a = -2$

$f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder the

- $f(1+i) = (a-2)i$
- $f(1+i) = a+2i$
- $f(1+i) = -4+(a-2)i$
- $f(1+i) = -4+(a+2)i$

Save & Next حفظ والتالي

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^3+x}$.
- $\frac{1}{x^3-1}$.
- $\frac{1}{x^3-x}$.
- $\frac{3}{x-1}$.

A

Save & Next

ProDisplay P201

Question No. 6

If $f(x) = \frac{3}{x-2}$ and $g(x) = \frac{4}{x+5}$. Determine the domain of the product of $f(x)$ and $g(x)$.

- $x \in (-\infty, -5) \cup (2, \infty)$
- $x \in (-\infty, \infty)$
- $x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$
- $x \in (-5, 2)$

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

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Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

Save & Next जतन व पुढील

ProDisplay P201

Answered: 11

Question No. 13

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2-x}$.
- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{3}{x-1}$.

B

Question No. 6

If $f(x) = \frac{3}{x-2}$ and $g(x) = \frac{4}{x+5}$. Determine the domain of the product of $f(x)$ and $g(x)$.

- $x \in (-\infty, -5) \cup (2, \infty)$
- $x \in (-\infty, \infty)$
- $x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$
- $x \in (-5, 2)$

The solution set of the equation $x^2 = \frac{1}{4}$

- $\{\frac{1}{4}\}$
- $\{\frac{1}{8}\}$
- $\{\frac{-1}{8}\}$
- $\{\frac{-1}{8}, \frac{1}{8}\}$

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Math_

Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x-2)$ equals:

- 2
- -3
- -2
- 3

D

Save & Next

ProDisplay P201

Question No. 1

Solve the inequality $x^2(x-1)(x-2) \leq 0$

- $x \in [1,2] \cup \{0\}$.
- $x \in \mathbb{R} \setminus (1,2)$.
- $x \in (1,2) \cup \{0\}$.
- $x \in \mathbb{R} \setminus [1,2]$.

A

Total questions in exam: 25 | Answered: 14

Question No. 6

Let $b \in \mathbb{R}\setminus\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y =$

- b = 3
- b = 1
- b = -3
- b = 2

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Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 20

The solution set of the following equation: $|x-2|=|x-1|$ is

- $\left\{\frac{3}{2}, \frac{5}{2}\right\}$
- ϕ
- $\left\{\frac{5}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$

Save & Next

Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

Save & Next

Question No. 16

Let $a \in \mathbb{R}$. Give the value of a such that the point $(1, 1)$ belongs to both lines $ax + a^2y = 6$ and $a^2x + 2y = 11$.

- a = 3
- a = -1
- a = -3
- a = 1

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Math_Quiz2_Sem

Total questions in exam: 25 | Answered: 0

Question No. 22

If the remainder of the division of $f(x)$ by $x + a$ is zero then

- x is a factor of the polynomial $f(x)$
- a is a factor of the polynomial $f(x)$
- $x + a$ is a factor of the polynomial $f(x)$
- $x - a$ is a factor of the polynomial $f(x)$

Save & Next جतन व पुढील

The range of $f(x) = 4 - x^2$ is

- $(-\infty, 4)$
- $(4, \infty)$
- $(-\infty, 4]$
- $(-\infty, \infty)$

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^3+x}$.
- $\frac{1}{x^3-1}$.
- $\frac{1}{x^3-x}$.
- $\frac{3}{x-1}$.

Save & Next

ProDisplay P201

$f(x) = \frac{3}{x-2}$ and $g(x) = \frac{4}{x+5}$. Determine the domain of the quotient of $f(x)$ and $g(x)$

$x \in (-\infty, 2) \cup (2, \infty)$

$x \in (-\infty, \infty)$

$x \in (-\infty, -5) \cup (-5, \infty)$

$x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$

ve $\frac{x}{x+2} \geq \frac{3}{x+2}$

$(-\infty, -2) \cup [3,$

$(-\infty, 2) \cup [3, \infty$

$(-\infty, -2) \cup (3, \infty$

$(-\infty, 2) \cup (3, \infty)$

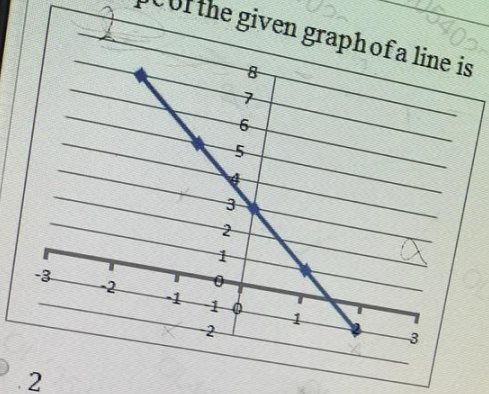
The slope of the line $4x - 3y = 12$ is

- $\frac{-4}{3}$
- 12
- Undefined
- $\frac{4}{3}$

A

Question No. 13

The slope of the given graph of a line is



- 2
- −3
- −2
- $\frac{-1}{2}$

C

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Total questions in exam: 25 | Answered: 14

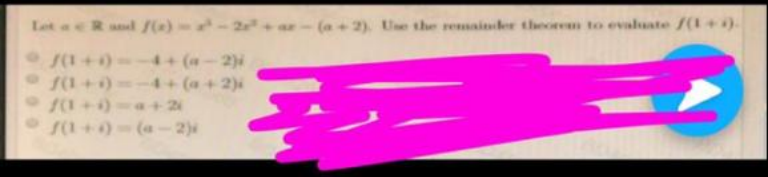
Question No. 6

Let $b \in \mathbb{R}\setminus\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y =$

- b = 3
- b = 1
- b = -3
- b = 2

Let $a \in \mathbb{R}$ and $f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder theorem to evaluate $f(1+i)$.

- $f(1+i) = -4 + (a-2)i$
- $f(1+i) = -4 + (a+2)i$
- $f(1+i) = a + 2i$
- $f(1+i) = (a-2)i$



Question No. 18

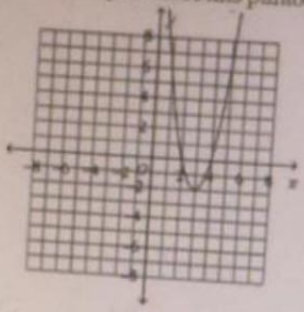
Let $a \in R$ and $x+2-a^2$ is a factor of a polynomial function $f(x)$, then

- $f(a^2+2)=0$
- $f(a^2-2)=0$
- $f(2-a^2)=0$
- $f(-a^2-2)=0$

A

Question No. 1

Write the equation of this parabola in vertex form.



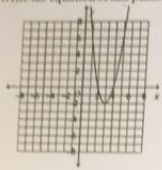
- $y = (x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x-3)^2 - 2$
- $y = 2(x+3)^2 + 2$

The equation $x = 3^y - 1$ is equivalent to the equation

- $y = \log_3(x+1)$
- $y = \log_3(x-1)$
- $x = \log_3(y+1)$
- $x = \log_3(y-1)$

Save & Next حفظ والتالي

Write the equation of this parabola in vertex form.



- $y = (x-3)^2 - 2$
- $y = 2(x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x+3)^2 + 2$

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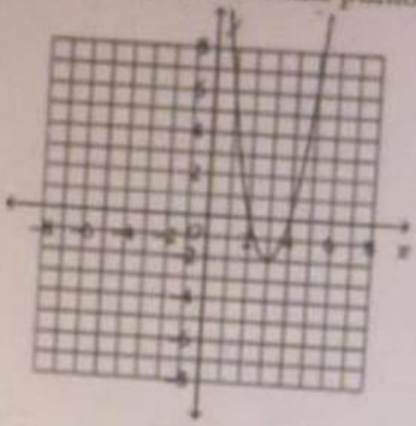
Write the equation of this parabola in vertex form.



- $y = (x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x-3)^2 - 2$
- $y = 2(x+3)^2 + 2$

No. 14

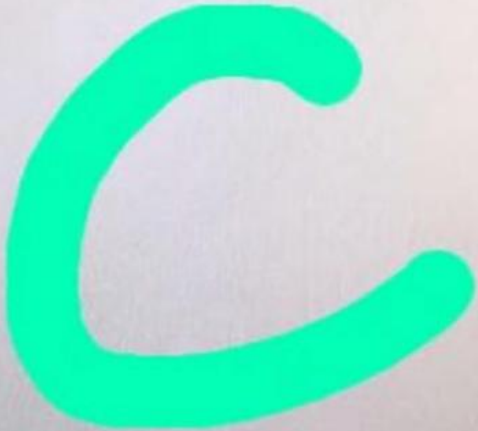
$\sqrt{x+2}$ and $g(x)=3x-5$. The domain of $(f \circ g)(x)$ is

c)

$\infty)$

$\infty)$

$, \infty)$



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Total questions in exam: 25 | Answered: 0

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

Save & Next جمع وتالي

ProDisplay P201

Total questions in exam: 25 | Answered: 14

Question No. 6

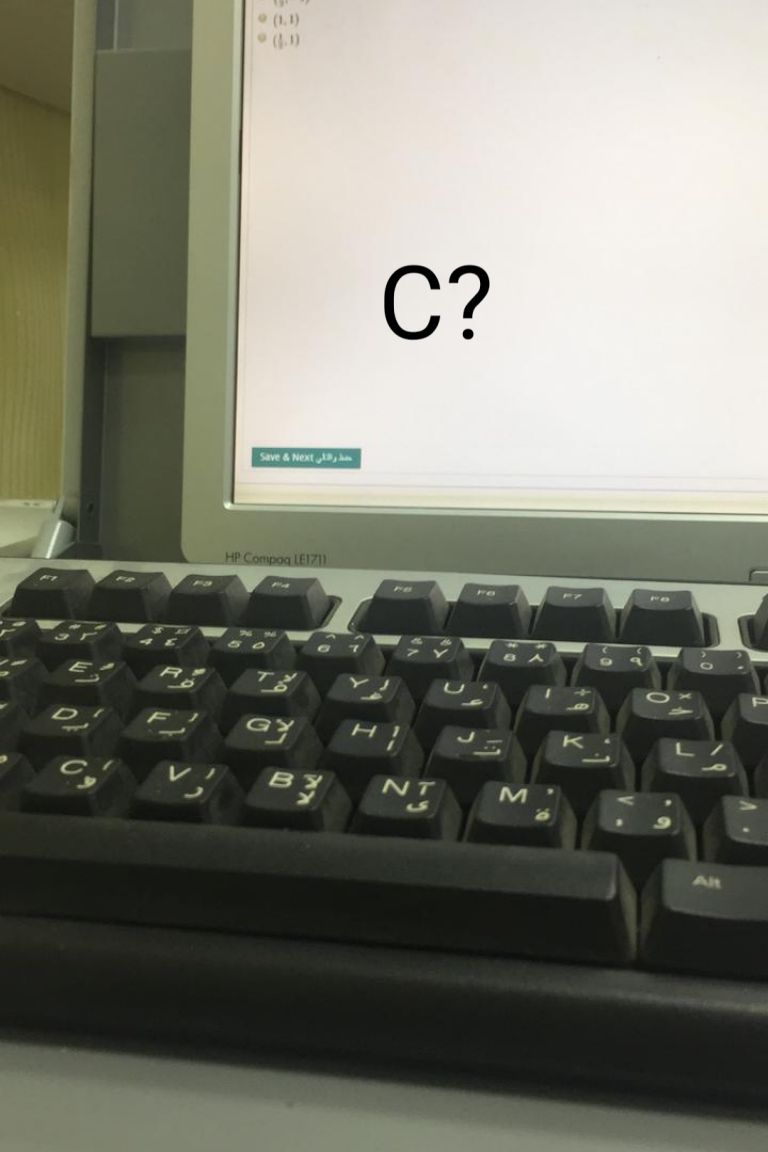
Let $b \in \mathbb{R}\setminus\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y =$

- b = 3
- b = 1
- b = -3
- b = 2

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.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Save & Next
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Alt

Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

A

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p$

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

B

MACL OES

Math_Quiz2_Sem1

Total questions in exam: 25 | Answered: 8

Question No. 16

Let $f(x) = \frac{1}{x^2-5x+6}$ and $g(x) = \sqrt{16-x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R}\backslash\{2,3\}$
- $(-4,4)$
- $(-4,2)\cup(2,3)\cup(3,4)$
- $(-4,2)\cup(2,4)$

C

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt[y]{x}$	$\sqrt[3]{}$	|x|

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$f(x) = x^3 - 2x^2 + ax - (a+2)$. Use the remainder the

- $f(1+i) = (a-2)i$
- $f(1+i) = a+2i$
- $f(1+i) = -4+(a-2)i$
- $f(1+i) = -4+(a+2)i$

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Total questions in exam: 25 | Answered: 14

Question No. 6

Let $b \in \mathbb{R}\setminus\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y =$

- b = 3
- b = 1
- b = -3
- b = 2

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Total questions in exam: 25 | Answered: 0

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

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Total questions in exam: 25 | Answered: 14

Question No. 6

Let $b \in \mathbb{R}\setminus\{-1\}$. Give the value of b such that the line $y = (b+2)x + 2$ is parallel to the line $b^2x - y =$

- b = 3
- b = 1
- b = -3
- b = 2

Question No. 1

If $a \in \mathbb{R}$, solve the inequality $3x - 5a \leq \frac{1}{2}(x+1)$, for x.

- $(-\infty, 2a - \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5})$
- $[2a + \frac{1}{5}, \infty)$

MACL OES

Math_Quiz2_Sem1

Total questions in exam: 25 | Answered: 8

Question No. 16

Let $f(x) = \frac{1}{x^2-3x+2}$ and $g(x) = \sqrt{16-x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R}\backslash\{2,3\}$
- $(-4,4)$
- $(-4,2)\cup(2,3)\cup(3,4)$
- $(-4,2)\cup(2,4)$

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp ( )

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$ ln log

π e n! $\log_e x$ e^x 10^x

sin cos tan x^y x^3 x^2

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt{x}$ $\sqrt[3]{x}$ |x|

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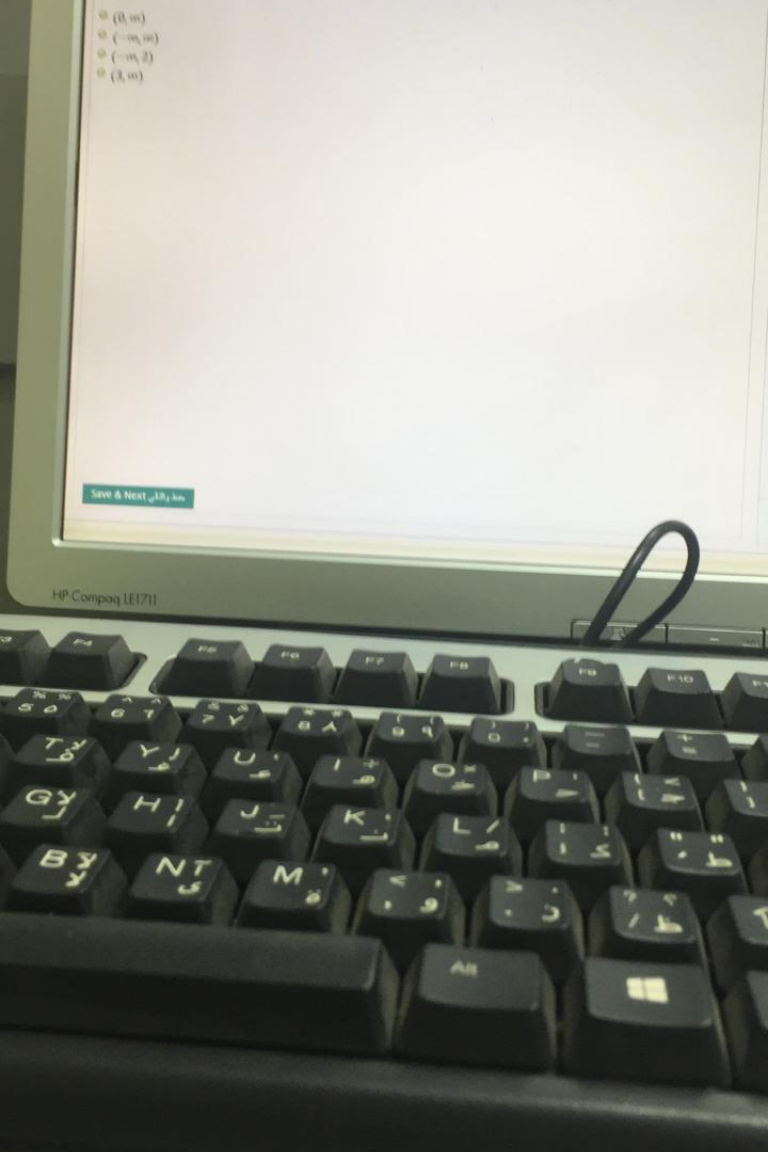
(1, ∞)
(−∞, ∞)
(−∞, 2)
(3, ∞)
Save & Next
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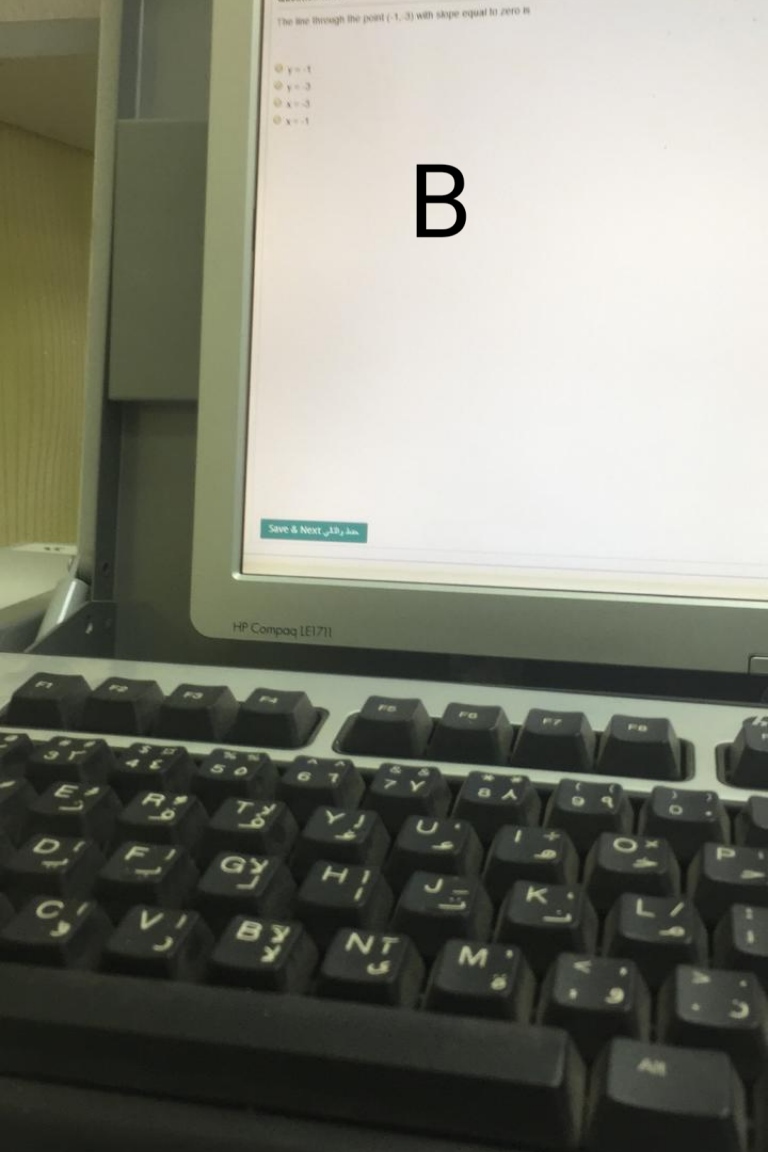
The line through the point (-1, -3) with slope equal to zero is
y = -1
y = -3
x = -3
x = -1
B
Save & Next
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Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

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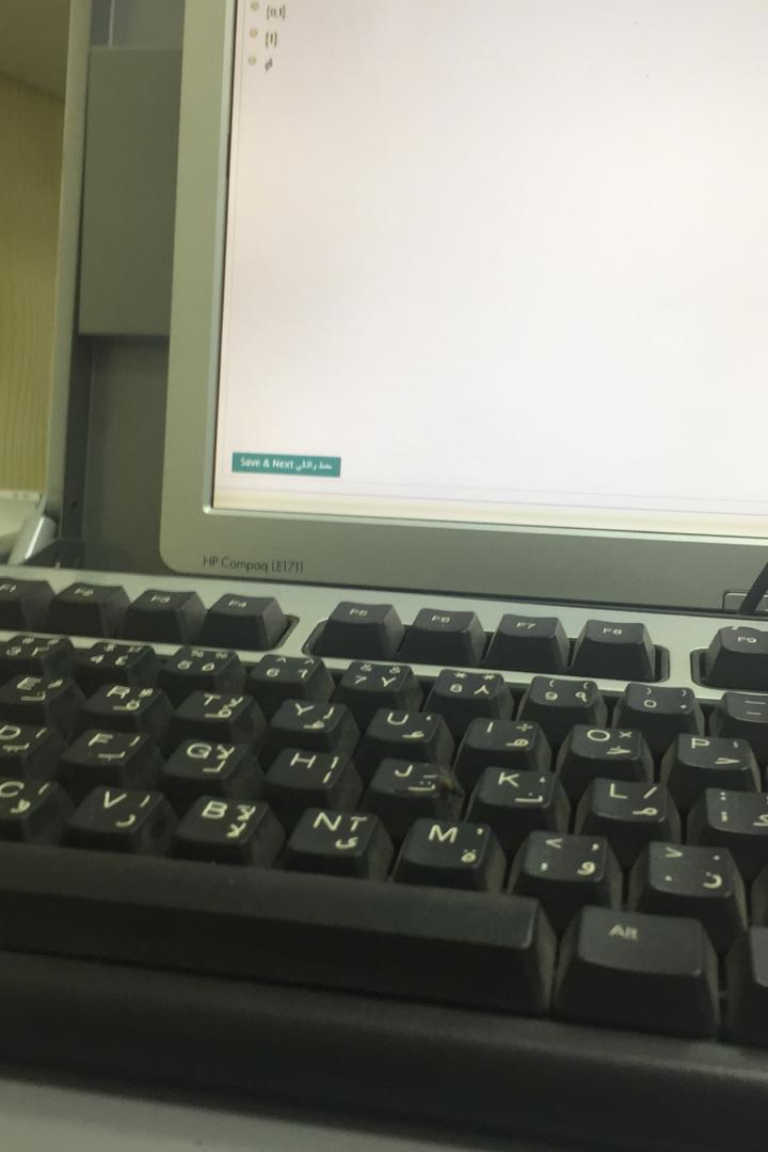
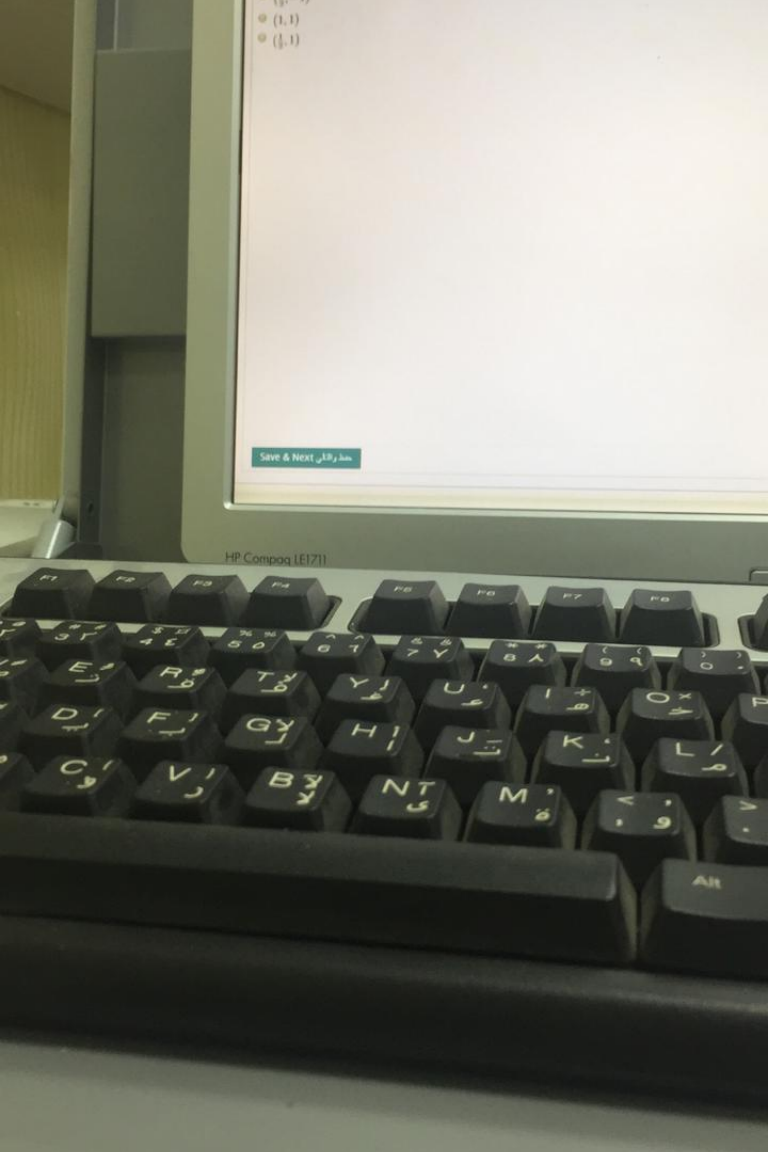

{0,0}
{1}
Save & Next
HP Compaq LE1711
Alt


(1, 1)
Save & Next
HP Compaq LE1711
Alt

Total questions in exam: 25 | Answered: 8

Question No. 25

Let $b \in \mathbb{R}\setminus\{\frac{1}{4}\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.

- b = -3
- b = 3
- b = 2
- b = 1

Save & Next حفظ وتالي

Scientific Calculator

0

mod Deg Rad MC MR MS M+ M-

sinh cosh tanh Exp ( ) ← C +/- √

sinh⁻¹ cosh⁻¹ tanh⁻¹ log_x ln log 7 8 9 / %

π e n! log_x e^x 10^x 4 5 6 * 1/x

sin cos tan x^y x³ x² 1 2 3 - =

sin⁻¹ cos⁻¹ tan⁻¹ ∛x ∜x |x| 0 . +

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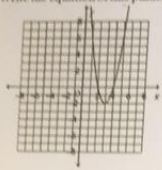
Question No. 16

Let $a \in \mathbb{R}$. Give the value of a such that the point $(1, 1)$ belongs to both lines $ax + a^2y = 6$ and $a^2x + 2y = 11$.

- a = 3
- a = -1
- a = -3
- a = 1

Write the equation of this parabola in vertex form.



- $y = (x-3)^2 - 2$
- $y = 2(x-3)^2 - 2$
- $y = 2(x+3)^2 - 2$
- $y = 2(x+3)^2 + 2$

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If $f(x) = \sqrt{x+2}$ and $g(x) = 3x - 5$. Find $h(x) = (f \circ g)(x)$

- $h(x) = 3\sqrt{x+2} - 5$
- $h(x) = \sqrt{3x+3}$
- $h(x) = 3\sqrt{x-1}$
- $h(x) = \sqrt{3x-3}$

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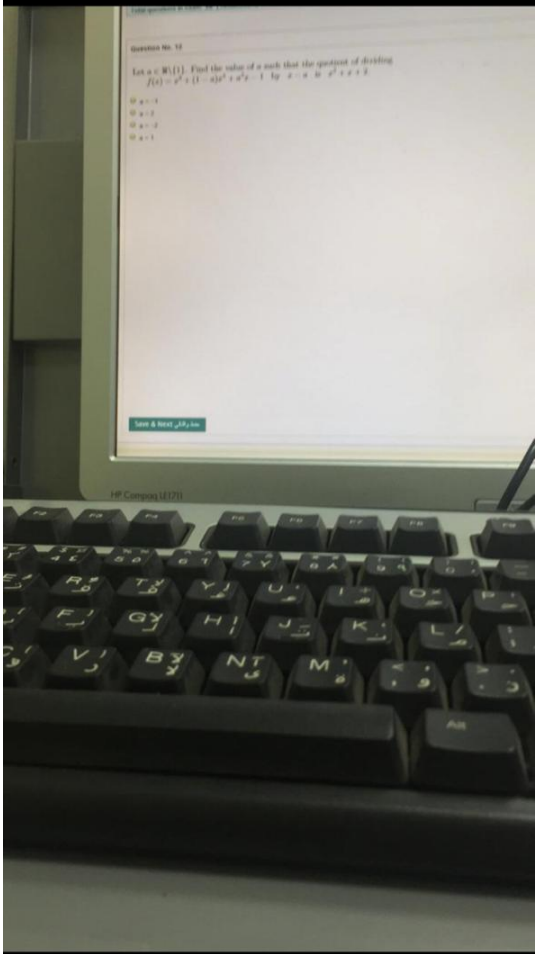
Question No. 12
Save & Next
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Question No. 2

If $f(x) = (x-3)(x+1)+c$ and the remainder of $\frac{f(x)}{x+2}$ is 6, then $f(x)$ is equal to

- x^2-2x+3
- x^2-2x-1
- x^2-2x-2
- $2x^2-2x+6$

Save & Next जतन व पुढील

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 5

The Solution set of $|7x-8|+8<1$ is

- $\left(-\infty, \frac{1}{7}\right) \cup \left(\frac{15}{7}, \infty\right)$
- $\emptyset$
- $\left(-\infty, \frac{1}{7}\right)$
- $\left(\frac{1}{7}, \frac{15}{7}\right)$

Let $a \in R\setminus\{2\}$ and $f(x) = 2x^2 + ax - a^2$. Find the value of a such that $x + 2$ is a factor of $f(x)$

- $a = -4$
- $a = 3$
- $a = -2$
- $a = 2$

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MKCL OES

Math_Quiz2_Sem1_2018

Total questions in exam: 25 | Answered: 1

Question No. 2

Given that $f(x) = 5x^3 + x^2 + x + 5$, then one of the following is a factor of $f(x)$

- $x+1$
- $x-2$
- $x+2$
- $x-1$

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Question No. 3

Rewrite this absolute value inequality as a compound inequality.

$$|11 + 4x| < 23$$

- $-23 < 11 + 4x > 23$
- $-23 > 11 + 4x < 23$
- $-23 < 11 + 4x < 23$
- $-23 > 11 + 4x > 23$

Save & Next حفظ وتالي

Total questions in exam: 25 | Answered: 5

Question No. 13

The equation $y = 3^{x-1}$ can be written as

- $x = 1 + \log_3 y$
- $x = \log_3 y$
- $x = \log_3(y + 1)$
- $y = 1 + \log_3 x$

Save & Next حفظ والتالي

HP Compaq LE1711

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

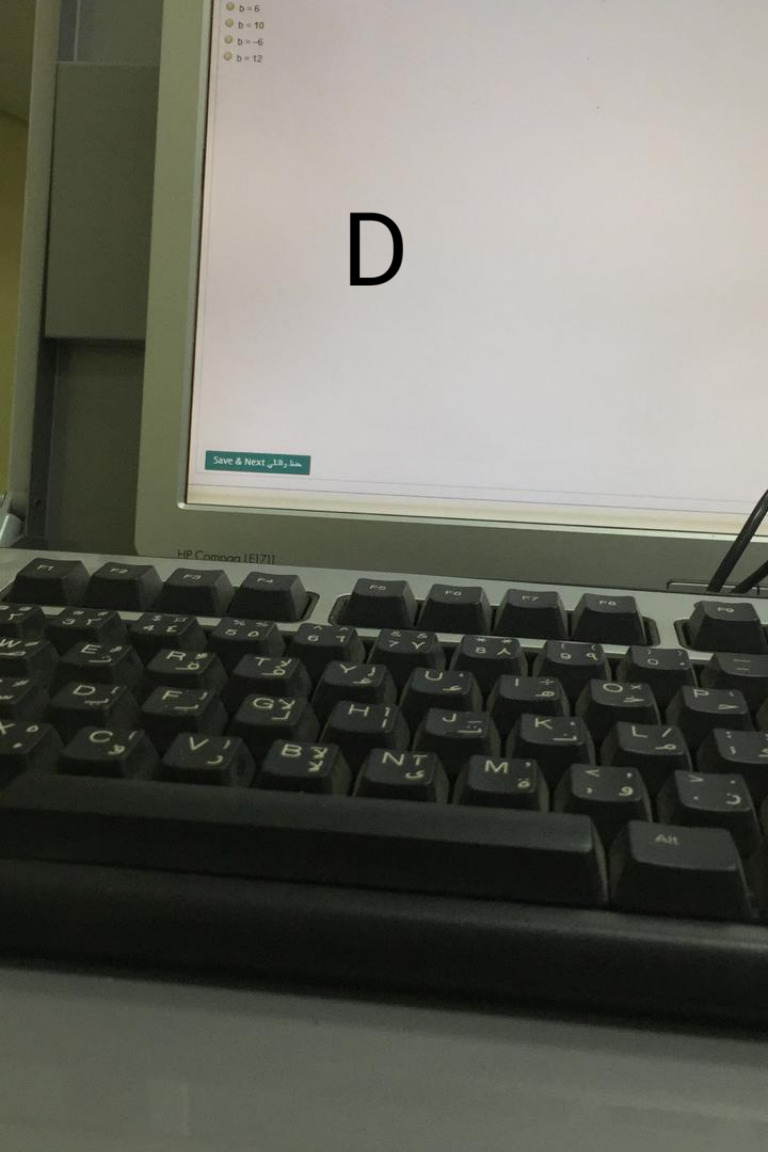
Total questions in exam: 25 | Answered: 0

Question No. 7

The domain and the range of $f(x) = 2x$ is

- all real numbers
- all negative real numbers
- all positive real numbers
- all non-zero real numbers

A


b = 6
b = 10
b = -6
b = 12
D
Save & Next
HP Compaq LE1711
Alt

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p\cdot q)(x)$.

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

n No. 22

emainder of the division of $f(x)$ by $x + a$ is zero then

s a factor of the polynomial $f(x)$
s a factor of the polynomial $f(x)$
a is a factor of the polynomial $f(x)$
a is a factor of the polynomial $f(x)$

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

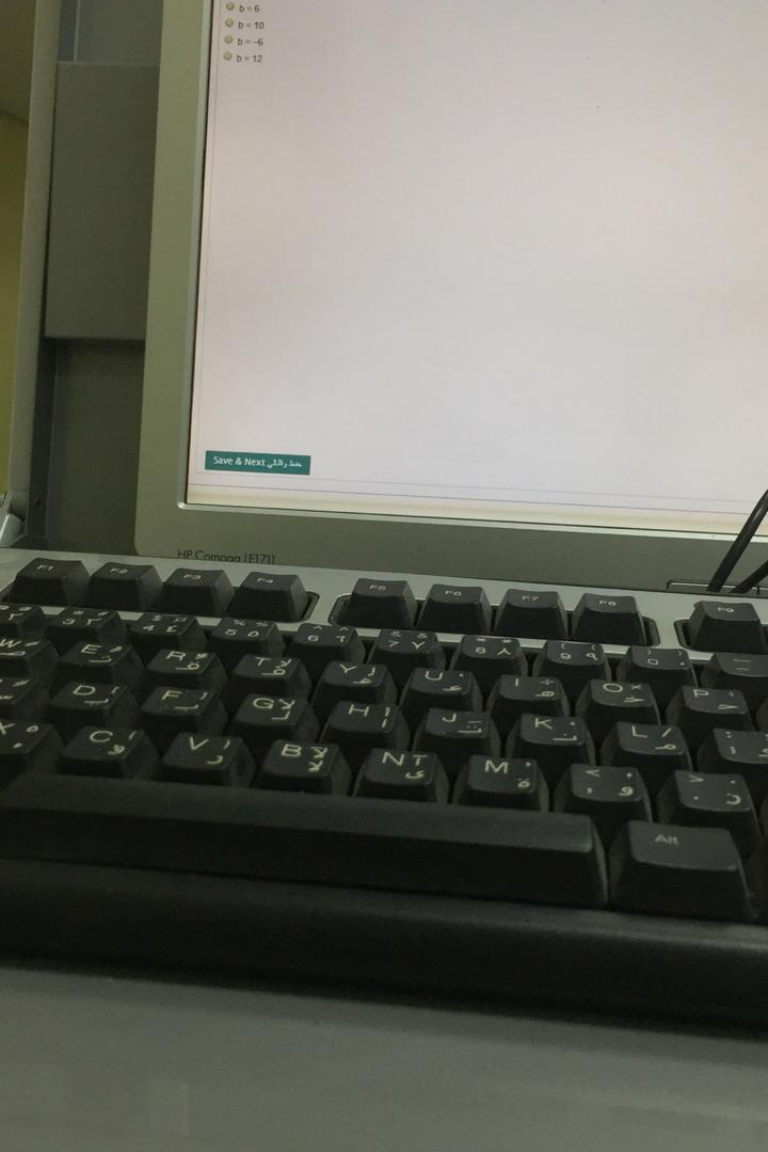
- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

Save & Next

If $f(x) = \frac{1}{x-2}$ and $g(x) = \frac{}{x+5}$. Determine the domain of the

- $x \in (-\infty, \infty)$
- $x \in (-5, 2)$
- $x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$
- $x \in (-\infty, -5) \cup (2, \infty)$

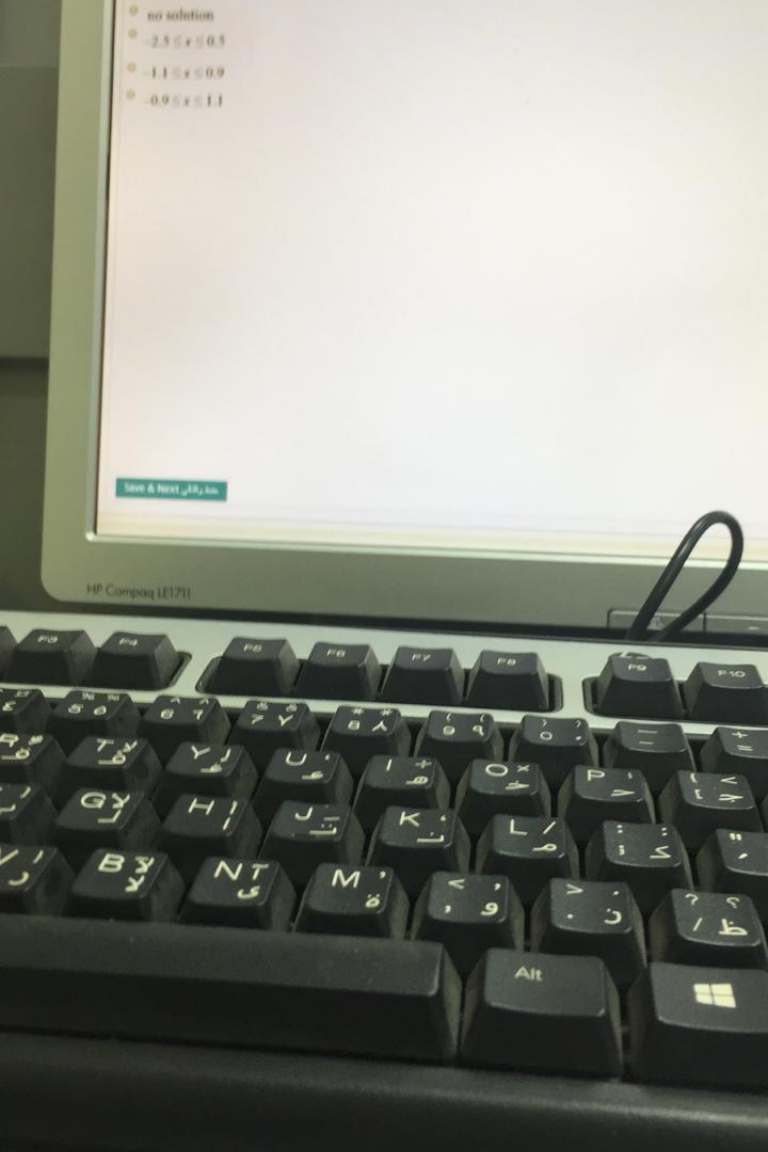
Save & Next حفظ والتالي

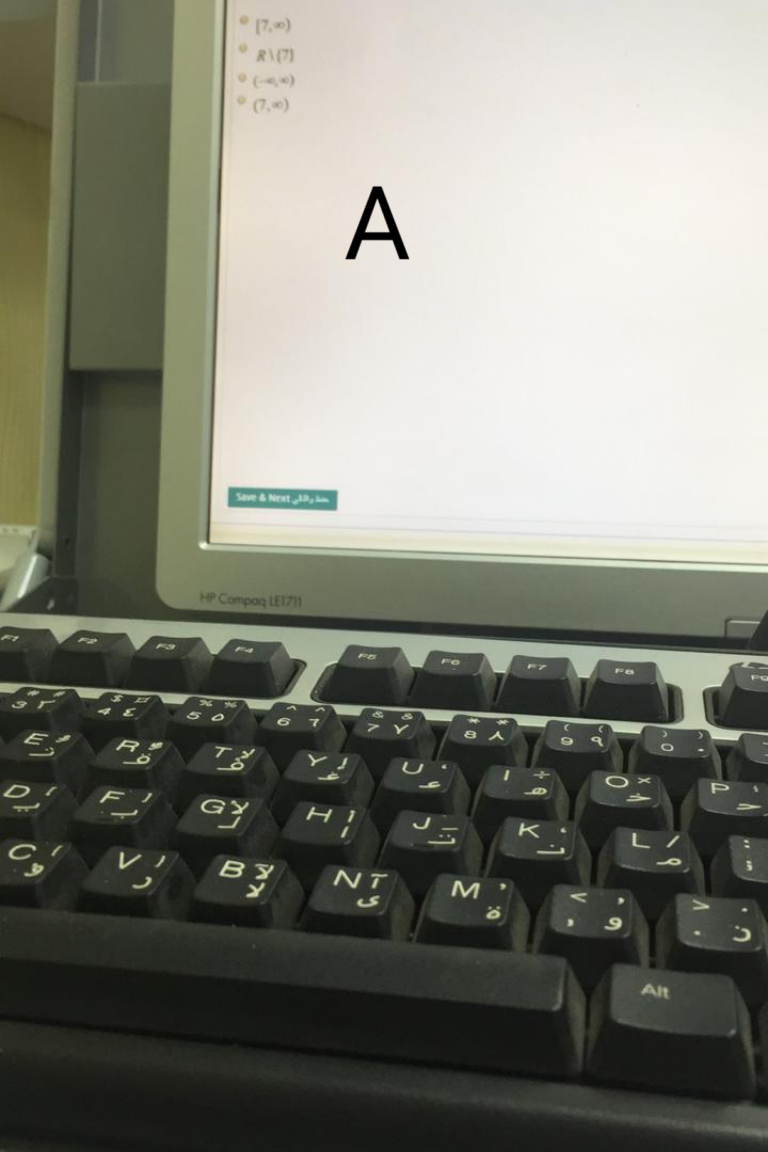

b = 6
b = 10
b = -6
b = 12
Save & Next حفظ وتالي
HP Compaq LE1711

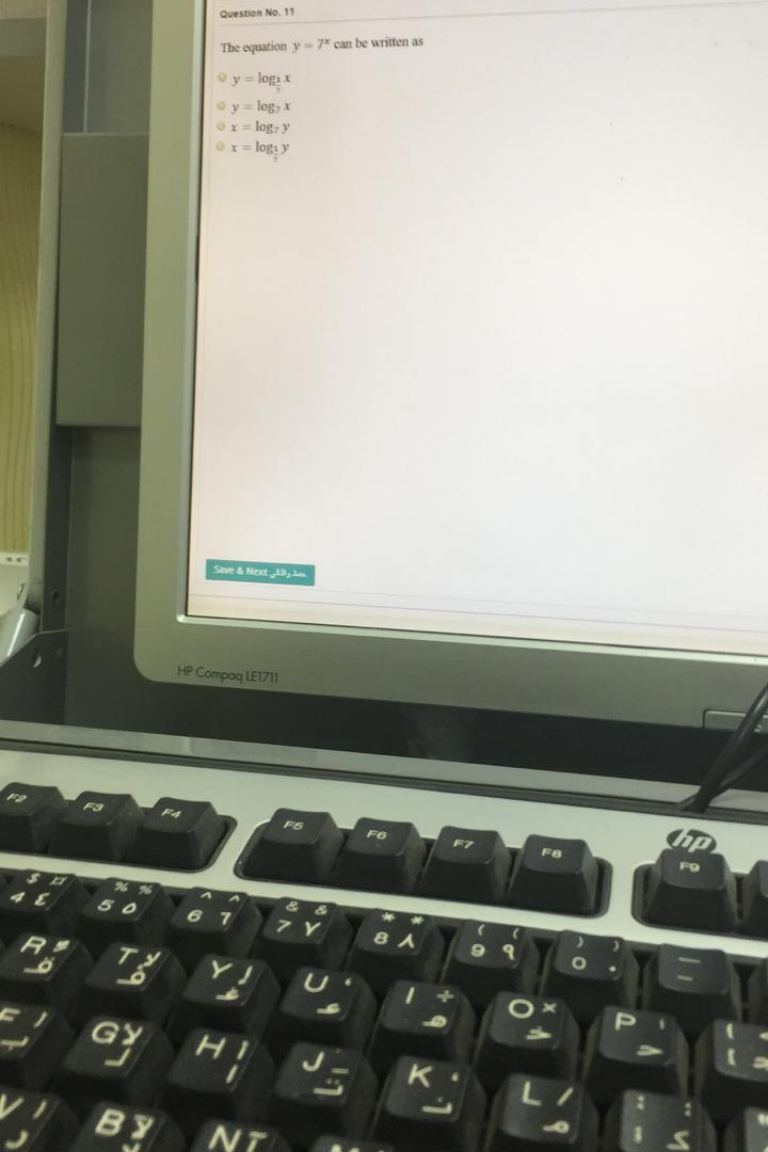
If $f(x) = \frac{1}{x-2}$ and $g(x) = \frac{}{x+5}$. Determine the domain of the

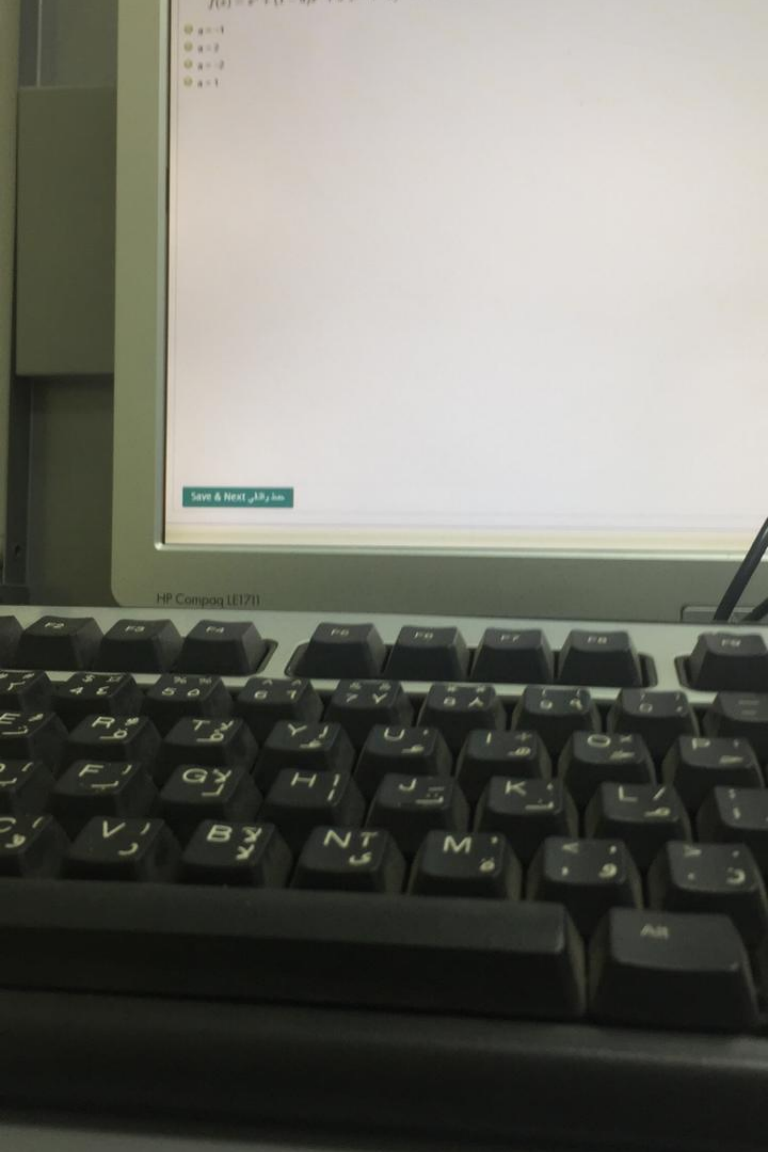
- $x \in (-\infty, \infty)$
- $x \in (-5, 2)$
- $x \in (-\infty, -5) \cup (-5, 2) \cup (2, \infty)$
- $x \in (-\infty, -5) \cup (2, \infty)$

Save & Next حفظ والتالي


no solution
$-2.5 \leq x \leq 0.5$
$-1.1 \leq x \leq 0.9$
$-0.9 \leq x \leq 1.1$
Save & Next
HP Compaq LE1711
Alt


$[7,\infty)$
$R \setminus \{7\}$
$(-\infty,\infty)$
$(7,\infty)$
A
Save & Next
HP Compaq LE1711
Alt


Question No. 11
The equation $y = 7^x$ can be written as
$y = \log_{\frac{1}{7}} x$
$y = \log_7 x$
$x = \log_7 y$
$x = \log_{\frac{1}{7}} y$
Save & Next
HP Compaq LE1711


a = -1
a = 2
a = -2
a = 1
Save & Next
HP Compaq LE1711

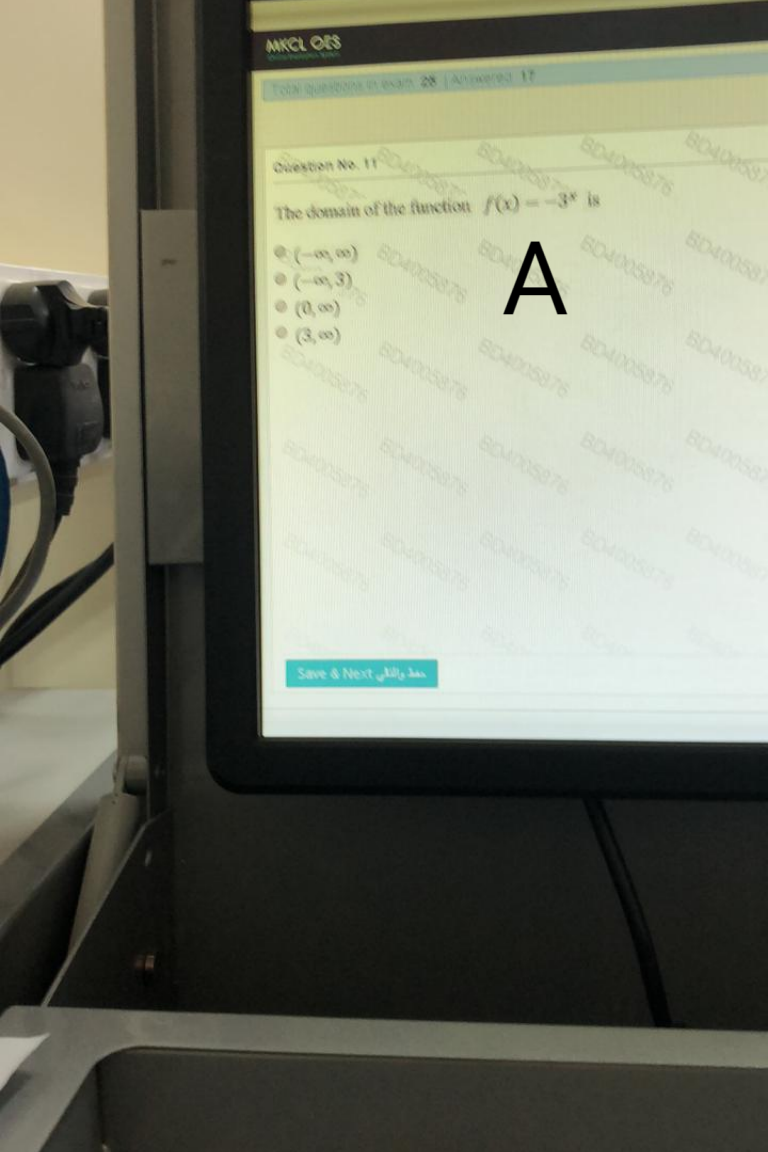
Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

Save & Next


MKCL OES
Question No. 11
The domain of the function $f(x) = -3^x$ is
$(-\infty, \infty)$
$(-\infty, 3)$
$(0, \infty)$
$(3, \infty)$
A
Save & Next حفظ والتالي

Question No. 18

The solution set of the following equation: $|x-2|=2x-7$ is

- $\{-4,3\}$
- $\{5\}$
- $\{3\}$
- ϕ

B

Save & Next حفظ والتالي

Total Questions in exam: 25 Answered: 17

Question No. 22

Find the equation of the quadratic function that has a vertex at (-4, -4) and that the point (-3, -5) on its graph.

- $f(x) = x^2 + 8x - 4$
- $f(x) = -x^2 - 8x - 20$
- $f(x) = -x^2 + 4x - 4$
- $f(x) = -3x^2 + 8x + 20$

Save & Next حفظ والتالي

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Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next

Question No. 12

Let $a \in \mathbb{R} \setminus \{1\}$. Find the value of a such that the quotient of dividing $f(x) = x^3 + (1-a)x^2 + a^2x - 1$ by $x - a$ is $x^2 + x + 2$

- $a = -1$
- $a = 2$
- $a = -2$
- $a = 1$

Save & Next حفظ والتالي

HP Compaq (E17)

MKCL OES

Math_C

Total questions in exam: 25 | Answered: 1

Question No. 2

If $f(x) = (x-3)(x+1) + c$ and the remainder of $\frac{f(x)}{x+2}$ is 6, then $f(x)$ is equal to

- $x^2 - 2x + 3$
- $x^2 - 2x - 1$
- $x^2 - 2x - 2$
- $2x^2 - 2x + 6$

Save & Next محفوظ

HP LE1901w

MKCL OES

Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 20

The solution set of the following equation: $|x-2|=|x-1|$ is

- $\left\{\frac{3}{2},\frac{5}{2}\right\}$
- ϕ
- $\left\{\frac{5}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$

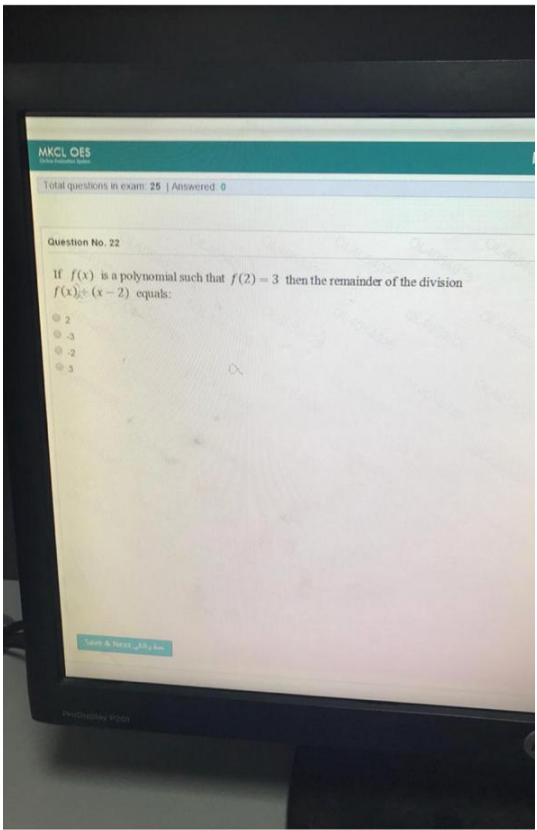
Save & Next حفظ والتالي

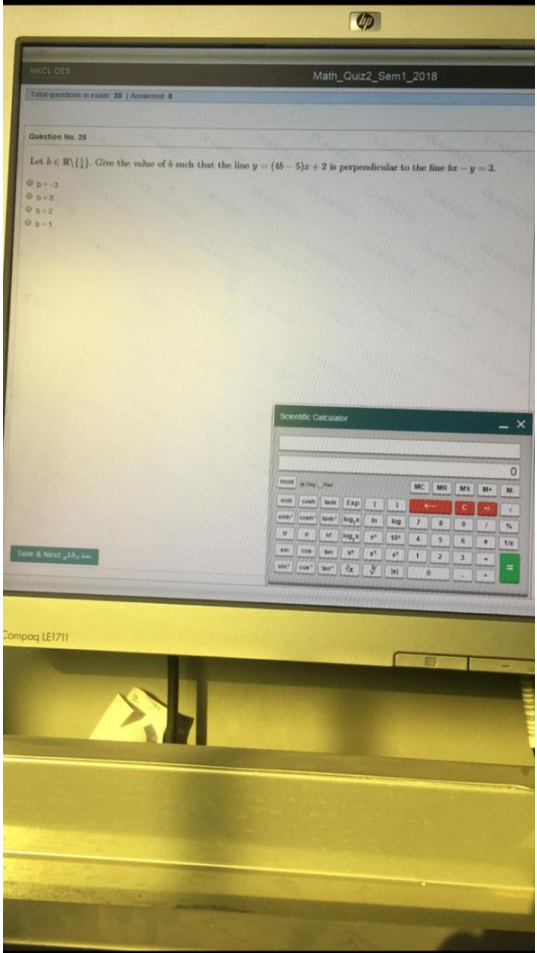
ProDisplay P201

Question No. 5

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- $\frac{1}{2}$
- -12
- $-2\sqrt{3}$
- $2\sqrt{3}$
- undefined


MKCL OES
Total questions in exam: 25 | Answered: 0
Question No. 22
If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x-2)$ equals:
2
-3
-2
3
Save & Next


MKCL OES
Math_Quiz2_Sem1_2018
Total questions in exam: 25 | Answered: 8
Question No. 25
Let $b \in \mathbb{R}\setminus\{\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.
b = -3
b = 3
b = 2
b = 1
Save & Next
Scientific Calculator
Compaq LE1711

Question No. 25

If x-2 is a factor of the polynomial f(x) then

- $f(0) = 2$
- $f(2) = 0$
- $f(0) = -2$
- $f(-2) = 0$

MKCL OES

Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next حفظ والتالي

ProDisplay P201

Total questions in exam: **25** | Answered: **4**

Question No. 8

The Solution set of $2-|1+\frac{x}{2}| \geq 5$ is

- $[-4,8]$
- $(-\infty,-8] \cup [4,\infty)$
- $\emptyset$
- $(-\infty,\infty)$

C

ve & Next حفظ والتالي

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

Save & Next जतन व पुढील

ProDisplay P201

Total questions in exam: 25 | Answered: 5

Question No. 13

The equation $y = 3^{x-1}$ can be written as

- $x = 1 + \log_3 y$
- $x = \log_3 y$
- $x = \log_3(y + 1)$
- $y = 1 + \log_3 x$

Save & Next حفظ والتالي

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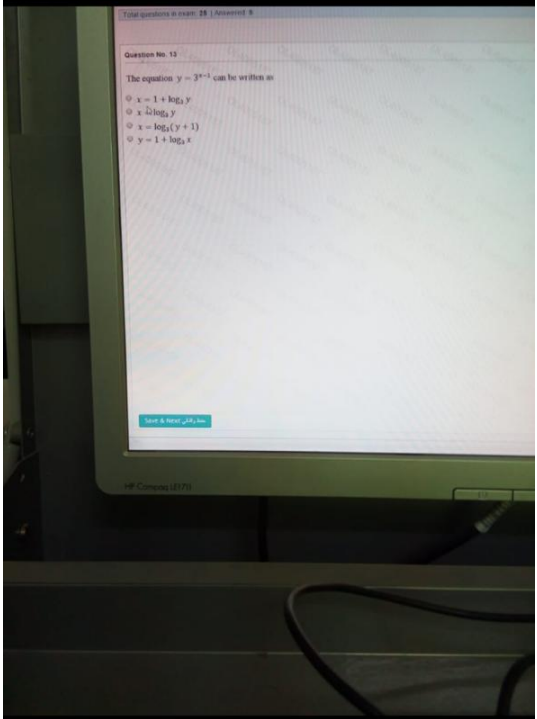
Total questions in exam: 25 | Answered: 9
Question No. 13
The equation $y = 3^{x-1}$ can be written as
$x = 1 + \log_3 y$
$x = \log_3 y$
$x = \log_3 (y + 1)$
$y = 1 + \log_3 x$
Save & Next
HP Compaq LE1711

MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 11

If 5 is a zero of $f(x) = x^3 - 8x^2 + 11x + 20$, then other zeros are

- 4 ,1
- -4, 1
- -4, -1
- 4 , -1

Save & Next حفظ و التالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_{10} x$

sin cos tan x^2

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt{x}$

HP Compaq LE1711

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

MKCL OES
Online Evaluation System

Math_

Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

Save & Next

ProDisplay P201

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

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Online Evaluation System

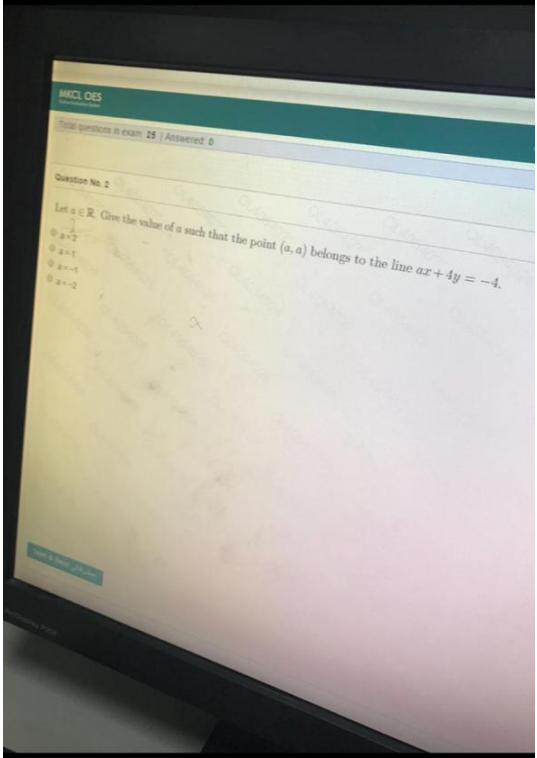
Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next


MKCL OES
Total questions in exam: 25 | Answered: 0
Question No. 2
Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.
a = 2
a = 1
a = -1
a = -2

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 24

The horizontal asymptote to the graph of $f(x) = 3^{x-1} + 2$.

- y = -2
- x = -2
- y = 3
- y = 2

Save & Next

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next حفظ والتالي

Question No. 1

If $a \in \mathbb{R}$, solve the inequality $3x - 5a \leq \frac{1}{2}(x+1)$, for x.

- $(-\infty, 2a - \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5})$
- $[2a + \frac{1}{5}, \infty)$

MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 13

The equation $y = \log_a x$ is equivalent to the equation

- $x = a^y$
- $y = x^a$
- $y = a^x$
- $x = y^a$

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

HP Compaq LE1711

MACL OES

Math_Quiz2_Sem1

Total questions in exam: 25 | Answered: 8

Question No. 16

Let $f(x) = \frac{1}{x^2 - 5x + 6}$ and $g(x) = \sqrt{16 - x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R} \backslash \{2, 3\}$
- $(-4, 4)$
- $(-4, 2) \cup (2, 3) \cup (3, 4)$
- $(-4, 2) \cup (2, 4)$

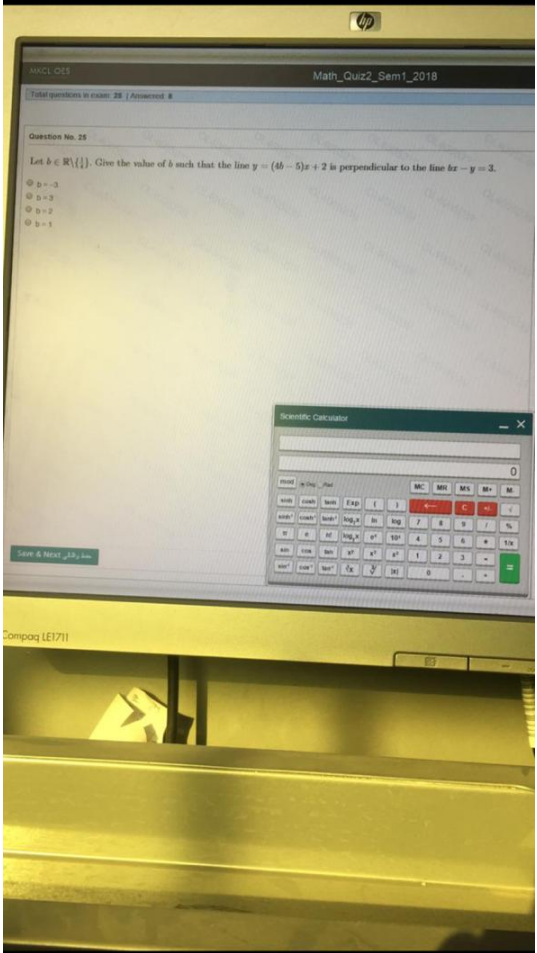
Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt{x}$	$\sqrt[3]{}$	|x|

HP Compaq LE1711


MKCL OES
Math_Quiz2_Sem1_2018
Total questions in exam: 25 | Answered: 8
Question No. 25
Let $b \in \mathbb{R}\setminus\{\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.
b = -3
b = 3
b = 2
b = 1
Save & Next
Scientific Calculator
Compaq LE1711

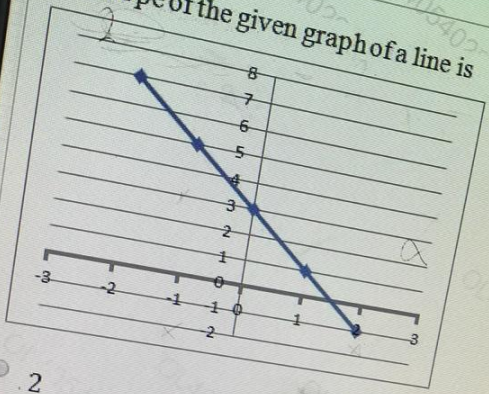
Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Question No. 13

The slope of the given graph of a line is



- 2
- -3
- -2
- $\frac{-1}{2}$

Save & Next حفظ والتالي

Question No. 11

The solution set of $-4|6 - x| + 4 \leq -20$ is

- $(-\infty, 10] \cup [2, \infty)$
- $(-\infty, 2] \cup [10, \infty)$
- $(-\infty, 0] \cup [12, \infty)$
- $(-\infty, 12] \cup [0, \infty)$

Question No. 12

The function $f(x) = 3x + x^2 - 6$ is

- Linear
- Cubic
- Quartic
- Quadratic

D

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Total questions in exam: 25 | Answered: 0

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next

Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Total questions in exam: **25** | Answered: **0**

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

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Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 16

Which of the following functions is not one-to-one

- F= { (3,5), (6,0), (7,-2), (1,-5) }
- F= { (4,-3), (1,0), (5,-2), (1,3) }
- F= { (-3,-2), (0,4), (3,2), (1,-5) }
- F= { (6,-3), (0,5), (4,-2), (1,-3) }

Save & Next حفظ و التالي

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next

MKCL OES

Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 20

The solution set of the following equation: $|x-2|=|x-1|$ is

- $\left\{\frac{3}{2},\frac{5}{2}\right\}$
- ϕ
- $\left\{\frac{5}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$

Save & Next حفظ والتالي

ProDisplay P201

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

Save & Next जतन व पुढील

ProDisplay P201

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Online Evaluation System

Math_

Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

Save & Next

ProDisplay P201

Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p\cdot q)(x)$.

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

Question No. 5

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- $\frac{1}{2}$
- -12
- $-2\sqrt{3}$
- $2\sqrt{3}$
- undefined

Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Total questions in exam: **25** | Answered: **0**

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

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Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

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Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 16

Which of the following functions is not one-to-one

- F= { (3,5), (6,0), (7,-2), (1,-5) }
- F= { (4,-3), (1,0), (5,-2), (1,3) }
- F= { (-3,-2), (0,4), (3,2), (1,-5) }
- F= { (6,-3), (0,5), (4,-2), (1,-3) }

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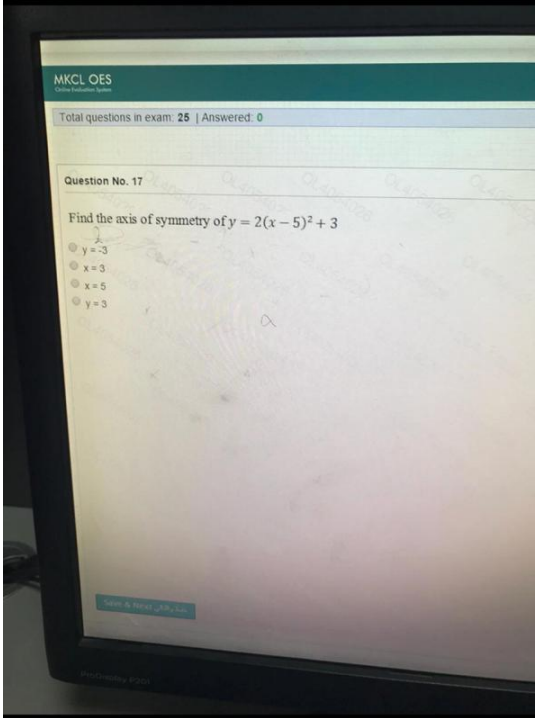

MKCL OES
Online Evaluation System
Total questions in exam: 25 | Answered: 0
Question No. 17
Find the axis of symmetry of $y = 2(x-5)^2 + 3$
y = -3
x = 3
x = 5
y = 3
Save & Next

MKCL OES

Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a \leq b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

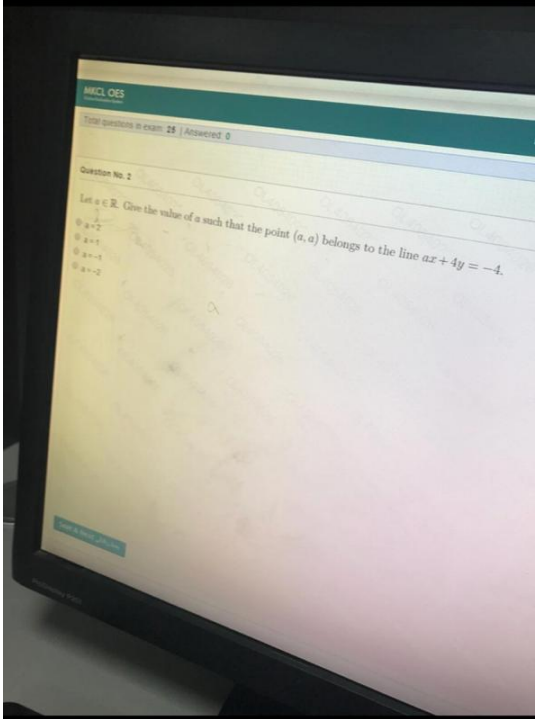
Save & Next

Total questions in exam: 25 | Answered: 0

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.


MKCL OES
Total questions in exam: 25 | Answered: 0
Question No. 2
Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.
a=2
a=1
a=-1
a=-2

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

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Total questions in exam: 25 | Answered: 0

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

Question No. 1

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x - 1}$.

- $\frac{1}{x^2 - 1}$.
- $\frac{3}{x - 1}$.
- $\frac{1}{x^3 + x}$.
- $\frac{1}{x^2 - x}$.

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HP Compaq LE1711

Total questions in exam: 25 | Answered: 5

Question No. 13

The equation $y = 3^{x-1}$ can be written as

- $x = 1 + \log_3 y$
- $x = \log_3 y$
- $x = \log_3(y + 1)$
- $y = 1 + \log_3 x$

Save & Next حفظ والتالي

HP Compaq LE1711

Total questions in exam: **25** | Answered: **7**

Question No. 1

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^3-1}$.
- $\frac{3}{x-1}$.
- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-x}$.

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- (1,3)
- (-2,3)
- $(-\infty,1) \cup (3,\infty)$
- $(-\infty,3)$

Save & Next حفظ والتالي

Question No. 3

The slope of the line x= -3 is

- -1
- 0
- Undefined
- 1

stion No. 4

h of the following statements is always true.

he graph of a quadratic function passes through the point (0, 0).

he axis of symmetry passes through the vertex.

he graph of a quadratic function is a straight line.

he range of a quadratic function is the set of all real numbers.

MKCL OES

Math_Quiz2_Sem1_2018

Total questions in exam: 25 | Answered: 25

Question No. 5

Given that $f(x) = 6x^3 + x^2 + 5x - 12$, then one of the following is a factor of $f(x)$

- x - 1
- x + 2
- x - 2
- x + 1

Save & Next जतन व पुढील

Question No: 8

Given that $f(x) = 6x^3 + x^2 + 5x - 12$, then one of the following is a factor of $f(x)$

- $x - 1$
- $x + 2$
- $x - 2$
- $x + 1$

Save & Next

MKCL OES

Total questions in exam: 25 | Answered: 25

Question No. 6

The domain of the function $f(x) = 2^{3x-1}$ is

- $(3, \infty)$
- $(0, \infty)$
- $(-\infty, \infty)$
- $(-\infty, 2)$

Total questions in exam: **25** | Answered: **25**

Question No. 7

If x+a is a factor of the polynomial f(x) then

- $f(a) = -a$
- $f(-a) \neq 0$
- $f(a) = 0$
- $f(-a) = 0$

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Question No. 8

The remainder of the division $(x^4 + x^3 + x^2 + x + 1) \div (x - 1)$ is

- 4
- 5
- 2
- 3 (selected)

Question No. 9

If $f(x)$ is a polynomial such that the remainder of the division $f(x) \div (x+4)$ equals 10 then

- $f(-4) = 10$
- $f(4) = 10$
- $f(10) = 4$
- $f(10) = -4$

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MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

MACL 065

Total questions in exam: 25 | Answered: 0

Question No. 1

The horizontal asymptote to the graph of $f(x) = 4^x + 2$

- $y = 4$
- $x = 4$
- $y = 2$
- $x = 2$

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

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MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

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MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

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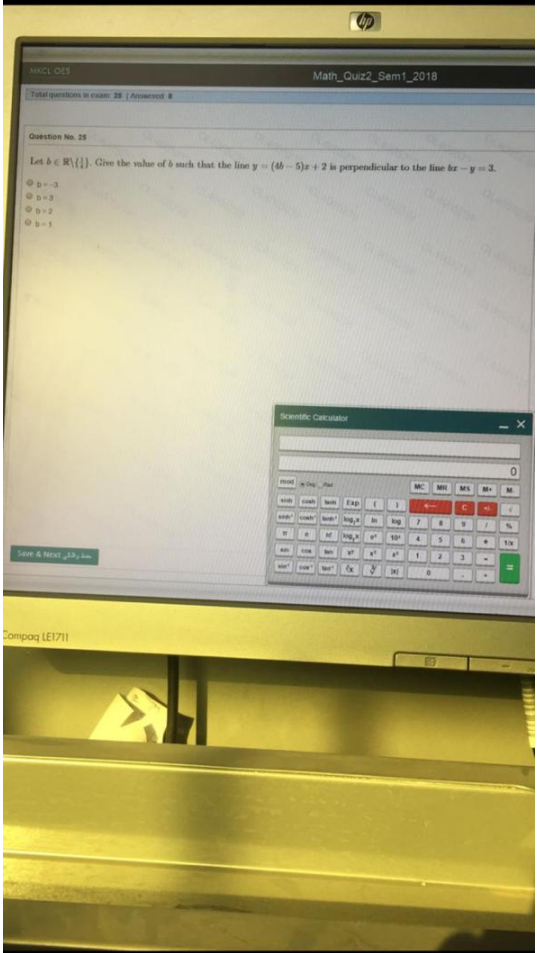
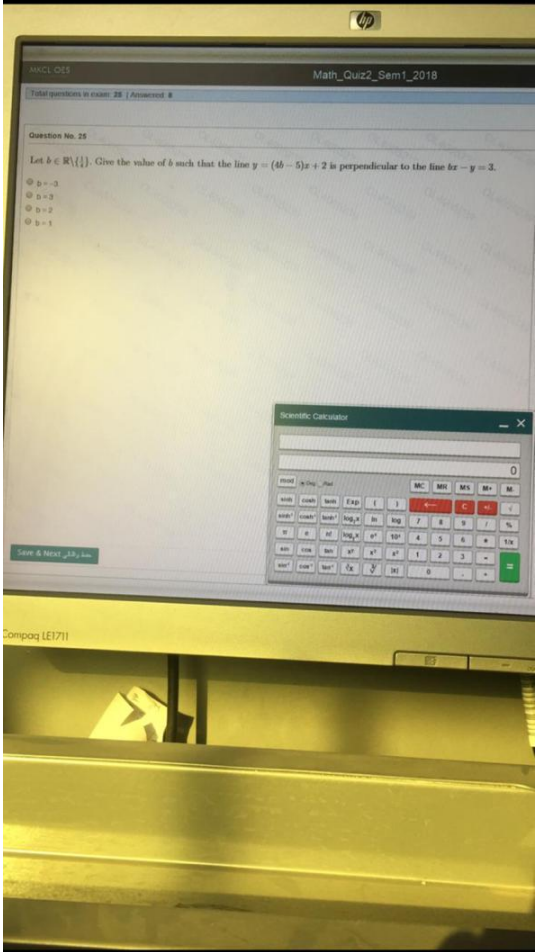

MKCL OES
Math_Quiz2_Sem1_2018
Total questions in exam: 25 | Answered: 8
Question No. 25
Let $b \in \mathbb{R}\setminus\{\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.
b = -3
b = 3
b = 2
b = 1
Save & Next
Scientific Calculator
Compaq LE1711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b = -3
b = 3
b = 2
b = 1
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Scientific Calculator
Compaq LE1711

MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 13

The equation $y = \log_a x$ is equivalent to the equation

- $x = a^y$
- $y = x^a$
- $y = a^x$
- $x = y^a$

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

HP Compaq LE1711

MKCL OES
Online Evaluation System

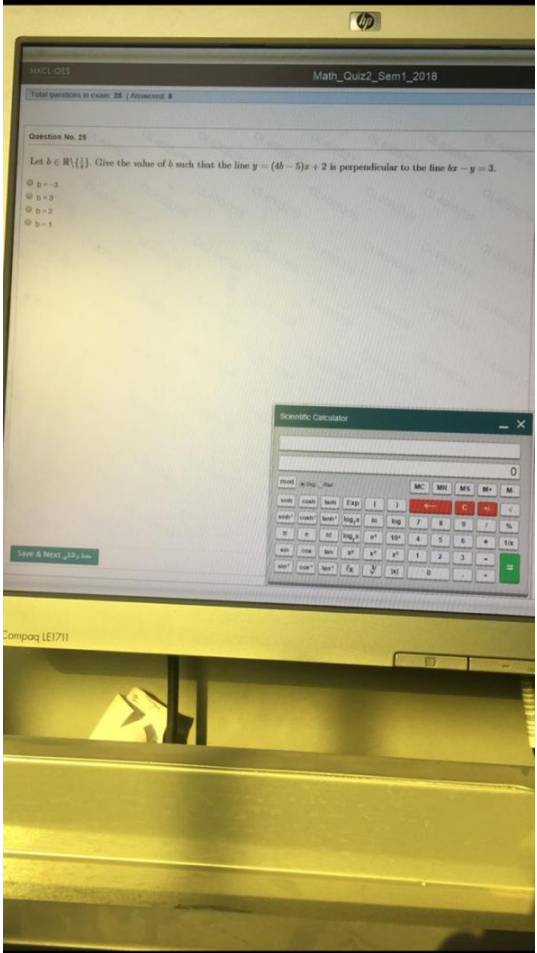
Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next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Math_Quiz2_Sem1_2018
Total questions in exam: 25 | Answered: 8
Question No. 25
Let $b \in \mathbb{R}\setminus\{\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.
b = -3
b = 3
b = 2
b = 1
Save & Next
Scientific Calculator
Compaq LE1711

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 2

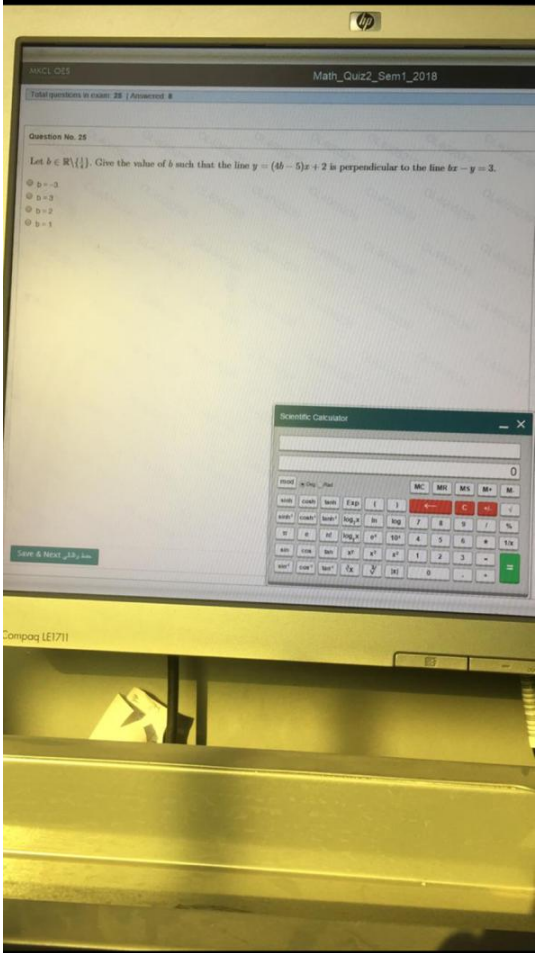
The quotient of the division $(5x^3 - 6x^2 - 28x - 2) \div (x + 2)$ is

- $5x^2 - 16x - 4$
- $5x^2 - 16x + 4$
- $5x^2 + 16x$
- $5x^2 - 16x$

Question No. 1

If $a \in \mathbb{R}$, solve the inequality $3x - 5a \leq \frac{1}{2}(x+1)$, for x.

- $(-\infty, 2a - \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5}]$
- $(-\infty, 2a + \frac{1}{5})$
- $[2a + \frac{1}{5}, \infty)$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Math_Quiz2_Sem1_2018
Total questions in exam: 25 | Answered: 8
Question No. 25
Let $b \in \mathbb{R}\setminus\{\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.
b = -3
b = 3
b = 2
b = 1
Save & Next
Scientific Calculator
Compaq LE1711

Total questions in exam: 25 | Answered: 4

Question No. 12

The degree of the quotient of the division $(x^8 - 4x^3 + x + 9) \div (x - 3)$ equals:

- 8
- 9
- 6
- 7

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp ( )

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$ ln log

π e n! $\log_y x$ e^x 10^x

sin cos tan x^y x^3 x^2

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[3]{x}$ $\sqrt[y]{}$ |x|

Save & Next حفظ والتالي

MKCL OES

Math_Quiz2

Total questions in exam: **25** | Answered: **4**

Question No. 11

If 5 is a zero of $f(x) = x^3 - 8x^2 + 11x + 20$, then other zeros are

- 4 ,1
- -4, 1
- -4, -1
- 4 , -1

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Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_e x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

HP Compaq LE1711

Total questions in exam: **25** | Answered: **4**

Question No. 10

Give the y-intercept of the line 3y - x = 0

- -3
- 1
- 0
- 3

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

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MKCL OES

Math_Quiz2_Sem1_2018

Total questions in exam: **25** | Answered: **4**

Question No. 9

Find the value of a such that the remainder of $\dfrac{3x^3+10x^2+ax+3}{x+1}$ is zero.

- 1
- −4
- 10
- 0

Save & Next حفظ والتالي

Scientific Calculator

mod | Deg Rad | MC | MR

sinh | cosh | tanh | Exp | (|) | ←

sinh⁻¹ | cosh⁻¹ | tanh⁻¹ | log₂x | ln | log | 7 | 8

π | e | n! | log_yx | e^x | 10^x | 4 | 5

sin | cos | tan | x^y | x^3 | x^2 | 1 | 2

sin⁻¹ | cos⁻¹ | tan⁻¹ | ∛x | ∛ | |x| | 0

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MKCL OES

Total questions in exam: 25 | Answered: 4

Question No. 15

Given that $f(x) = 4^{3x-1} + 1$. Then $f(1) =$

- 16
- 14
- 17
- 15

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

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MKCL OES

Total questions in exam: 25 | Answered: 4

Question No. 14

The solution of $14 \leq 3x + 5 \leq 23$ is .....

- (-6,-3)
- [3,6]
- (3,6)
- [-6,-3]

Save & Next جمع و التالي

Scientific Calcul

mod Deg

sinh cosh

$\sinh^{-1}$ $\cosh^{-1}$

π e

sin cos

$\sin^{-1}$ $\cos^{-1}$

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MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 13

The equation $y = \log_a x$ is equivalent to the equation

- $x = a^y$
- $y = x^a$
- $y = a^x$
- $x = y^a$

Save & Next حفظ والتالي

Scientific Calculator

mod ● Deg ○ Rad

sinh	cosh	tanh	Exp
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$
π	e	n!	$\log_y x$
sin	cos	tan	x^y
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt[y]{x}$

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Question No. 16

Let $f(x) = \frac{1}{x^2-5x+6}$ and $g(x) = \sqrt{16-x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R}\backslash\{2,3\}$
- $(-4,4)$
- $(-4,2) \cup (2,3) \cup (3,4)$
- $(-4,2) \cup (2,4)$

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt{x}$	$\sqrt[3]{}$	|x|

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Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Total questions in exam: 25 | Answered: 2

Question No. 7

If x+1 is a factor of the polynomial f(x) then

- $f(1) = 0$
- $f(0) = -1$
- $f(0) = 1$
- $f(-1) = 0$

Total questions in exam: 25 | Answered: 8

Question No. 25

Let $b \in \mathbb{R}\setminus\{\frac{1}{4}\}$. Give the value of b such that the line $y = (4b-5)x + 2$ is perpendicular to the line $bx - y = 3$.

- b = -3
- b = 3
- b = 2
- b = 1

Save & Next حفظ وتالي

Scientific Calculator

0

mod Deg Rad MC MR MS M+ M-

sinh cosh tanh Exp ( ) ← C +/- √

sinh⁻¹ cosh⁻¹ tanh⁻¹ log x ln log 7 8 9 / %

π e n! log_y x e^x 10^x 4 5 6 * 1/x

sin cos tan x^y x³ x² 1 2 3 - =

sin⁻¹ cos⁻¹ tan⁻¹ ∛x ∜x |x| 0 . +

Compaq LE1711

MKCL OES

Total questions in exam: **25** | Answered: **2**

Question No. 5

Solve $|x - 4| < 7$

- (-11,11)
- (-11,3)
- (-3,11)
- (-3,3)

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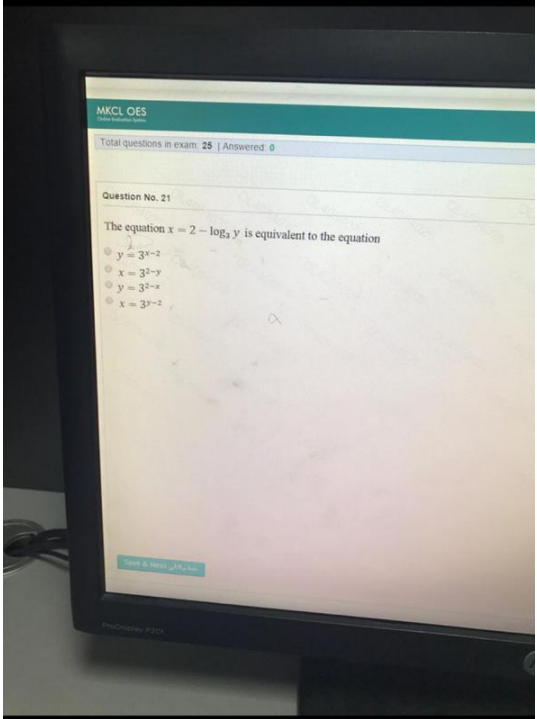

MKCL OES
Total questions in exam: 25 | Answered: 0
Question No. 21
The equation $x = 2 - \log_3 y$ is equivalent to the equation
$y = 3^{x-2}$
$x = 3^{2-y}$
$y = 3^{2-x}$
$x = 3^{y-2}$
Save & Next
PHILIPS

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 15

If $a \leq b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Total questions in exam: 25 | Answered: 4

Question No. 12

The degree of the quotient of the division $(x^8 - 4x^3 + x + 9) \div (x - 3)$ equals:

- 8
- 9
- 6
- 7

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp ( )

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$ ln log

π e n! $\log_y x$ e^x 10^x

sin cos tan x^y x^2 x^3

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[3]{x}$ $\sqrt[y]{}$ |x|

Save & Next حفظ والتالي

MKCL OES
Online Evaluation System

Math_

Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

Save & Next

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{1}{x-1}$.

Save & Next

ProDisplay P20

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 24

The horizontal asymptote to the graph of $f(x) = 3^{x-1} + 2$.

- y = -2
- x = -2
- y = 3
- y = 2

Save & Next

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next حفظ والتالي

MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 13

The equation $y = \log_a x$ is equivalent to the equation

- $x = a^y$
- $y = x^a$
- $y = a^x$
- $x = y^a$

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

HP Compaq LE1711

MACL OES

Math_Quiz2_Sem1

Total questions in exam: 25 | Answered: 8

Question No. 16

Let $f(x) = \frac{1}{x^2 - 5x + 6}$ and $g(x) = \sqrt{16 - x^2}$. Find the domain of $\left(\frac{f}{g}\right)(x)$.

- $\mathbb{R} \backslash \{2, 3\}$
- $(-4, 4)$
- $(-4, 2) \cup (2, 3) \cup (3, 4)$
- $(-4, 2) \cup (2, 4)$

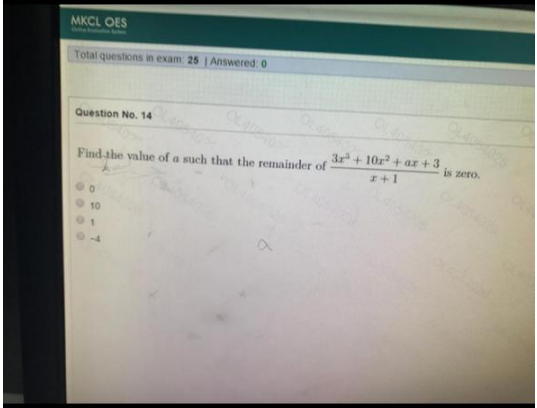
Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt{x}$	$\sqrt[3]{}$	|x|

HP Compaq LE1711


MKCL OES
Total questions in exam: 25 | Answered: 0
Question No. 14
Find the value of a such that the remainder of $\frac{3x^3+10x^2+ax+3}{x+1}$ is zero.
0
10
1
-4

MKCL OES
Online Evaluation System

Math_

Total questions in exam: 25 | Answered: 0

Question No. 22

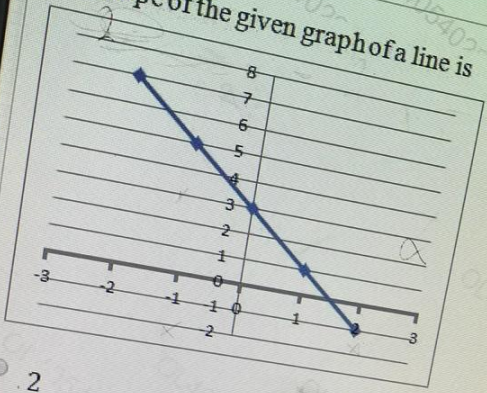
If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

Save & Next

Question No. 13

The slope of the given graph of a line is



- 2
- -3
- -2
- $\frac{-1}{2}$

Save & Next حفظ والتالي

Total questions in exam: 25 | Answered: 0

Question No. 7

The domain and the range of $f(x) = 2x$ is

- all real numbers
- all negative real numbers
- all positive real numbers
- all non-zero real numbers

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p\cdot q)(x)$.

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Total questions in exam: **25** | Answered: **0**

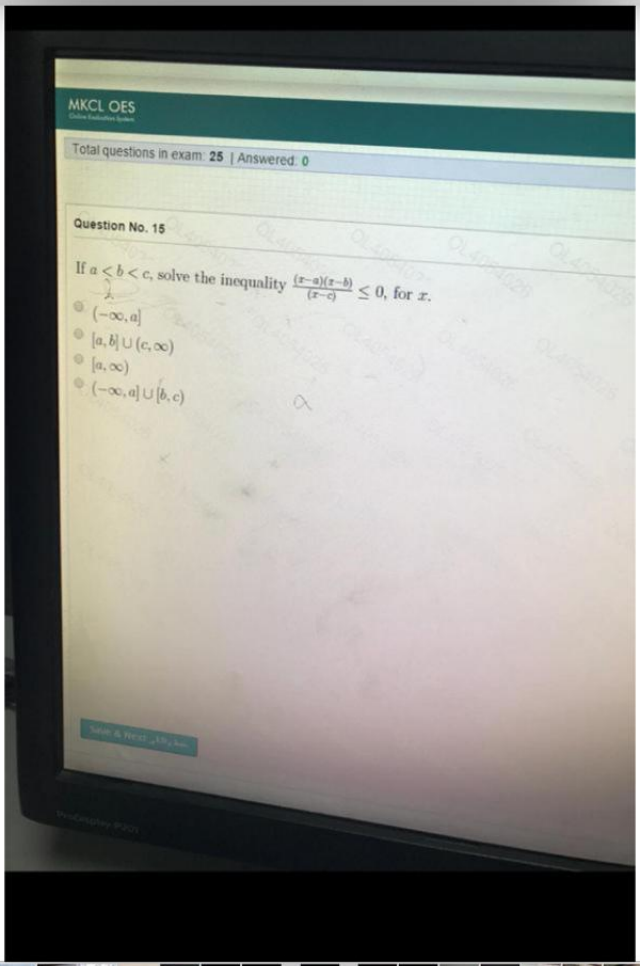
Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Samba.

تم ايداع مبلغ ١٠٩٠,٠٠ في حساب ******٢١٦١ في
٢٠١٨-١١-٢٠ ٠٩:٠٠صباحا



Total questions in exam: 25 | Answered: 0

Question No. 7

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- all real numbers
- all negative real numbers
- all positive real numbers
- all non-zero real numbers

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- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 1

The horizontal asymptote to the graph of $f(x) = 4^x + 2$

- y = 4
- x = 4
- y = 2
- x = 2

Question No. 2

The solution set of the following equation: $|x-2|=|x-1|$ is

- $\left\{\frac{5}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$
- $\emptyset$
- $\left\{\frac{3}{2}, \frac{5}{2}\right\}$

Save & Next حفظ والتالي

Scien

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sinh

$\sinh^{-1}$

π

sin

$\sin^{-1}$

Question No. 3

Let $a > 0$. The intervals on which the function $f(x) = a(x-h)^2 + k$ increases and decreases are

- Increasing on $(-\infty, -h)$, decreasing on $[k, \infty)$
- Increasing on$(-\infty, k)$, decreasing on (k, ∞)
- Increasing on $(-\infty, h)$, decreasing on $(-\infty, k)$
- Increasing on $[h, \infty)$, decreasing on $(-\infty, h]$

Scientific Calculator

mod Deg Rad MC M

sinh cosh tanh Exp ( ) ←

sinh⁻¹ cosh⁻¹ tanh⁻¹ $\log_2 x$ ln log 7 8

π e n! $\log_y x$ e^x 10^x 4 5

sin cos tan x^y x^3 x^2 1 2

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$ $\sqrt[3]{}$ |x| 0

Save & Next حفظ والتالي

ompaq LE1711

Question No. 1

The horizontal asymptote to the graph of $f(x) = 4^x + 2$

- y = 4
- x = 4
- y = 2
- x = 2

Save & Next حفظ والتالي

Scienti

mod

sinh

$\sinh^{-1}$

π

sin

$\sin^{-1}$

HP Compaq LE1711

Total questions in exam: 25 | Answered: 2

Question No. 4

The domain of the function $f(x) = 1 - \log_4(x-2)$ is

- $(-\infty, 2)$
- $(0, \infty)$
- $(2, \infty)$
- $(-\infty, \infty)$

Save & Next

Scientific

mod

sinh

sin

HP Compaq LE1711

MKCL OES

Total questions in exam: **25** | Answered: **2**

Question No. 5

Solve $|x - 4| < 7$

- (-11,11)
- (-11,3)
- (-3,11)
- (-3,3)

Save & Next جतन र पुढील

MKCL OES

Total questions in exam: **25** | Answered: **2**

Question No. 6

If $f(x)=3x^2+2x-1$ then $f(a+1)=$

- $3a^2+8a+4$
- $3a^2+2a-1$
- a^4+2a^2-1
- a^2+2a-1

Save & Next حفظ واقبلي

MKCL OES

Total questions in exam: 25 | Answered: 2

Question No. 7

If x+1 is a factor of the polynomial f(x) then

- $f(1) = 0$
- $f(0) = -1$
- $f(0) = 1$
- $f(-1) = 0$

Save & Next

Scientific Ca

mod | Deg

sinh | cosh

$\sinh^{-1}$ | $\cosh^{-1}$

π | e

sin | cos

$\sin^{-1}$ | $\cos^{-1}$

HP Compaq LE1711

MKCL OES

Math_

Total questions in exam: **25** | Answered: **2**

Question No. 8

Which of the following functions is not one-to-one

- F= { (-3,-2), (0,4), (3,2), (1,-5) }
- F= { (6,-3), (0,5), (4,-2), (1,-3) }
- F= { (4,-3), (1,0), (5,-2), (1,3) }
- F= { (3,5), (6,0), (7,-2), (1,-5) }

Scientific Ca

mod Deg

sinh cosh

sinh⁻¹ cosh⁻¹

π e

sin cos

sin⁻¹ cos⁻¹

Save & Next حفظ والتالي

HP Compaq [5171]

MKCL OES

Math_Quiz2_Sem1_2018

Total questions in exam: 25 | Answered: 4

Question No. 9

Find the value of a such that the remainder of $\dfrac{3x^3+10x^2+ax+3}{x+1}$ is zero.

- 1
- −4
- 10
- 0

Save & Next حفظ والتالي

Scientific Calculator

mod ● Deg ○ Rad MC MR

sinh cosh tanh Exp ( ) ←

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$ ln log 7 8

π e n! $\log_y x$ e^x 10^x 4 5

sin cos tan x^y x^3 x^2 1 2

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$ $\sqrt[3]{}$ |x| 0

HP Compaq LE1711

MKCL OES

Math_Quiz

Total questions in exam: **25** | Answered: **4**

Question No. 10

Give the y-intercept of the line 3y - x = 0

- -3
- 1
- 0
- 3

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

Save & Next حفظ والتالي

HP Compaq LE1711

MKCL OES

Math_Quiz2

Total questions in exam: **25** | Answered: **4**

Question No. 11

If 5 is a zero of $f(x) = x^3 - 8x^2 + 11x + 20$, then other zeros are

- 4 ,1
- -4, 1
- -4, -1
- 4 , -1

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_{10} x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

Save & Next حفظ والتالي

HP Compaq LE1711

Total questions in exam: 25 | Answered: 4

Question No. 12

The degree of the quotient of the division $(x^8 - 4x^3 + x + 9) \div (x - 3)$ equals:

- 8
- 9
- 6
- 7

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh	cosh	tanh	Exp	(	)
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$	ln	log
π	e	n!	$\log_y x$	e^x	10^x
sin	cos	tan	x^y	x^3	x^2
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt[3]{x}$	$\sqrt[3]{}$	|x|

HP Compaq LE1711

MKCL OES

Math_Quiz2

Total questions in exam: 25 | Answered: 4

Question No. 13

The equation $y = \log_a x$ is equivalent to the equation

- $x = a^y$
- $y = x^a$
- $y = a^x$
- $x = y^a$

Save & Next حفظ والتالي

Scientific Calculator

mod | Deg | Rad

sinh	cosh	tanh	Exp
$\sinh^{-1}$	$\cosh^{-1}$	$\tanh^{-1}$	$\log_2 x$
π	e	n!	$\log_y x$
sin	cos	tan	x^y
$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$\sqrt[y]{x}$

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MKCL OES

Total questions in exam: 25 | Answered: 4

Question No. 14

The solution of $14 \le 3x + 5 \le 23$ is .....

- (-6,-3)
- [3,6]
- (3,6)
- [-6,-3]

Save & Next حفظ والتالي

Scientific Calcul

mod Deg Ra

sinh cosh
$sinh^{-1}$ $cosh^{-1}$
π e
sin cos
sin^{-1} cos^{-1}

HP Compaq LE1711

MKCL OES

Total questions in exam: 25 | Answered: 4

Question No. 15

Given that $f(x) = 4^{3x-1} + 1$. Then $f(1) =$

- 16
- 14
- 17
- 15

Save & Next حفظ والتالي

Scientific Calculator

mod Deg Rad

sinh cosh tanh Exp

$\sinh^{-1}$ $\cosh^{-1}$ $\tanh^{-1}$ $\log_2 x$

π e n! $\log_y x$

sin cos tan x^y

$\sin^{-1}$ $\cos^{-1}$ $\tan^{-1}$ $\sqrt[y]{x}$

HP Compaq LE1711

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

Save & Next

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 24

The horizontal asymptote to the graph of $f(x) = 3^{x-1} + 2$.

- y = -2
- x = -2
- y = 3
- y = 2

Save & Next

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p\cdot q)(x)$.

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

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- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

Question No. 5

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- -12
- $-2\sqrt{5}$
- $2\sqrt{5}$
- undefined

MKCL OES
Online Evaluation System

Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

Save & Next जतन व पुढील

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
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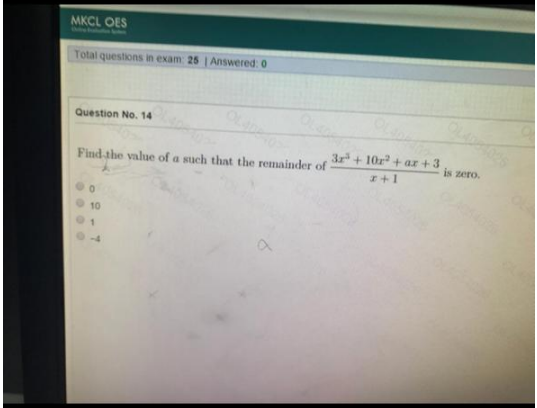
- $f(x + a) = 0$.


MKCL OES
Total questions in exam: 25 | Answered: 0
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0
10
1
-4

MKCL OES

Total questions in exam: 25 | Answered: 0

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If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

Save & Next

MKCL OES

Total questions in exam: 25 | Answered: 0

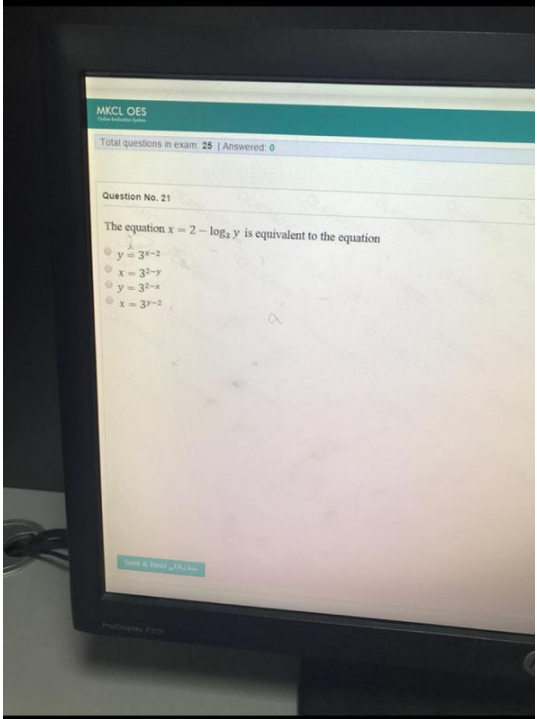
Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{1}{x-1}$.

Save & Next

ProDisplay P20


MKCL OES
Total questions in exam: 25 | Answered: 0
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The equation $x = 2 - \log_3 y$ is equivalent to the equation
$y = 3^{x-2}$
$x = 3^{2-y}$
$y = 3^{2-x}$
$x = 3^{y-2}$
Save & Next
PHILIPS

Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 6

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Determine the domain of $(p\cdot q)(x)$.

- $x \in (-3, 4)$
- $x \in [-3, 4]$
- $x \in (-\infty, -3) \cup (4, \infty)$
- $x \in [4, \infty)$

Question No. 5

If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- $\frac{1}{2}$
- -12
- $-2\sqrt{3}$
- $2\sqrt{3}$
- undefined

Question No. 5

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- $\frac{1}{2}$
- -12
- $-2\sqrt{3}$
- $2\sqrt{3}$
- undefined

Total questions in exam: 25 | Answered: 0

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- $x^3 + 5x^2 + 8$

Total questions in exam: 25 | Answered: 0

Question No. 2

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- a = -2

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- -12
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- $2\sqrt{3}$
- undefined

Total questions in exam: 25 | Answered: 0

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- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Save & Next

MKCL OES

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

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- a = 1
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If $p(x)=\sqrt{x+3}$ and $q(x)=\sqrt{x-4}$. Evaluate $(p \cdot q)(1)$.

- -12
- $-2\sqrt{5}$
- $2\sqrt{5}$
- undefined

Question No. 4

The solution of the exponential equation $2^{x-1} = 4^x$ is

- x = -1
- x = 1
- x = 4
- x = 2

Question No. 3

Let a be a complex number and $f(x) = x^4 - x^2 - 12$. If $x - a$ is a factor of $f(x)$ then

- $x + a$ is a factor of f too.
- $-x + a$ is a factor of f too.
- $-x - a$ is a factor of f too.
- $f(x + a) = 0$.

Total questions in exam: 25 | Answered: 0

Question No. 7

The domain and the range of $f(x) = 2x$ is

- all real numbers
- all negative real numbers
- all positive real numbers
- all non-zero real numbers

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Question No. 8

The solution of $14 \leq 3x + 5 \leq 23$ is .....

- [-6,-3]
- (3,6)
- (-6,-3)
- [3,6]

Question No. 9

Given that $f(x) = 4^{3x-1} + 1$. Then $f(1) =$

- 15
- 17
- 16
- 14

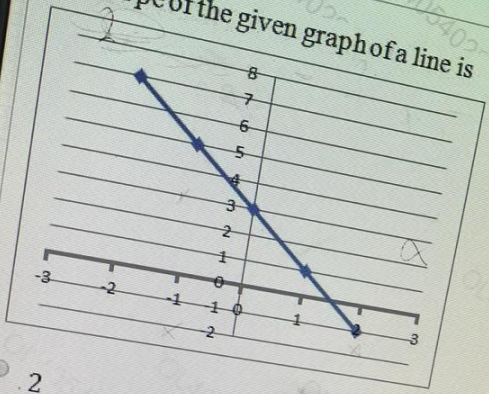
Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Question No. 13

The slope of the given graph of a line is



- 2
- -3
- -2
- $\frac{-1}{2}$

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Question No. 11

The solution set of $-4|6 - x| + 4 \leq -20$ is

- $(-\infty, 10] \cup [2, \infty)$
- $(-\infty, 2] \cup [10, \infty)$
- $(-\infty, 0] \cup [12, \infty)$
- $(-\infty, 12] \cup [0, \infty)$

Question No. 12

The function $f(x) = 3x + x^2 - 6$ is

- Linear
- Cubic
- Quartic
- Quadratic

Question No. 10

Which of the following statements is always true.

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- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

Total questions in exam: 25 | Answered: 0

Question No. 14

Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

Total questions in exam: **25** | Answered: **0**

Question No. 15

If $a < b < c$, solve the inequality $\frac{(x-a)(x-b)}{(x-c)} \leq 0$, for x.

- $(-\infty, a]$
- $[a, b] \cup (c, \infty)$
- $[a, \infty)$
- $(-\infty, a] \cup [b, c)$

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Total questions in exam: 25 | Answered: 0

Question No. 1

The quotient of the division $(x^4 - x^3 - 5x^2 - 3x + 2) \div (x - 1)$ is

- $x^3 - 5x - 8$
- $x^3 + 5x + 8$
- $x^3 - 5x^2 - 8$
- $x^3 + 5x^2 + 8$

Total questions in exam: **25** | Answered: **0**

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Find the value of a such that the remainder of $\frac{3x^3 + 10x^2 + ax + 3}{x + 1}$ is zero.

- 0
- 10
- 1
- -4

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Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

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Question No. 19

Find the function $f(x)$ such that $(fg)(x) = \frac{3}{x^3 - x}$, where $g(x) = \frac{3}{x-1}$.

- $\frac{1}{x^2+x}$.
- $\frac{1}{x^2-1}$.
- $\frac{1}{x^2-x}$.
- $\frac{3}{x-1}$.

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Total questions in exam: **25** | Answered: **0**

Question No. 16

Which of the following functions is not one-to-one

- F= { (3,5), (6,0), (7,-2), (1,-5) }
- F= { (4,-3), (1,0), (5,-2), (1,3) }
- F= { (-3,-2), (0,4), (3,2), (1,-5) }
- F= { (6,-3), (0,5), (4,-2), (1,-3) }

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Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

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Total questions in exam: **25** | Answered: **0**

Question No. 17

Find the axis of symmetry of $y = 2(x-5)^2 + 3$

- y = -3
- x = 3
- x = 5
- y = 3

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Total questions in exam: **25** | Answered: **0**

Question No. 20

The solution set of the following equation: $|x-2|=|x-1|$ is

- $\left\{\frac{3}{2},\frac{5}{2}\right\}$
- ϕ
- $\left\{\frac{5}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$

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Total questions in exam: **25** | Answered: **0**

Question No. 21

The equation $x = 2 - \log_3 y$ is equivalent to the equation

- $y = 3^{x-2}$
- $x = 3^{2-y}$
- $y = 3^{2-x}$
- $x = 3^{y-2}$

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Total questions in exam: 25 | Answered: 0

Question No. 22

If $f(x)$ is a polynomial such that $f(2) = 3$ then the remainder of the division $f(x) \div (x - 2)$ equals:

- 2
- -3
- -2
- 3

Save & Next

ProDisplay P201

Question No. 10

Which of the following statements is always true.

- The graph of a quadratic function is a straight line.
- The graph of a quadratic function passes through the point (0, 0).
- The range of a quadratic function is the set of all real numbers.
- The axis of symmetry passes through the vertex.

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Total questions in exam: 25 | Answered: 0

Question No. 18

The vertical asymptote to the graph of $f(x) = 2 - \log_5(x-3)$

- y = 2
- x = -3
- y = 3
- x = 3

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Total questions in exam: 25 | Answered: 0

Question No. 24

The horizontal asymptote to the graph of $f(x) = 3^{x-1} + 2$.

- y = -2
- x = -2
- y = 3
- y = 2

Save & Next

Total questions in exam: 25 | Answered: 0

Question No. 2

Let $a \in \mathbb{R}$. Give the value of a such that the point (a, a) belongs to the line $ax + 4y = -4$.

- a = 2
- a = 1
- a = -1
- a = -2

Question No. 10

Which of the following statements is always true.

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Save & Next

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- a = 2
- a = 1
- a = -1
- a = -2

Question No. 7

Find $(f \circ g)(x)$, where $f(x) = x^2 + x$, $g(x) = \sqrt{x-1}$.

- $x - 1 + \sqrt{x-1}$
- $2x - 1$
- $\sqrt{x^2 + x - 1}$
- $x - 1 + \sqrt{x}$

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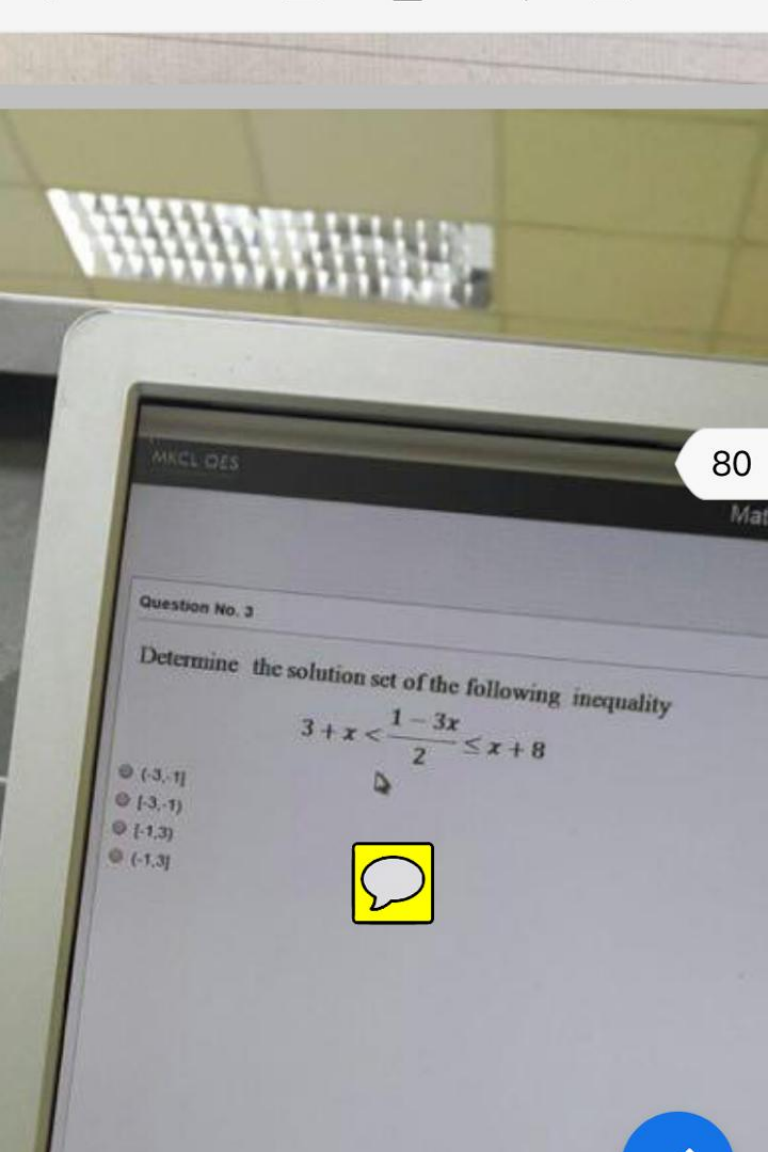
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Question No. 3
Determine the solution set of the following inequality
$3 + x < \frac{1 - 3x}{2} \leq x + 8$
(-3,-1]
[-3,-1)
[-1,3)
(-1,3]

3. Suppose $a \in \mathbb{R}$. Give the value of a such that the equation $|2x + 3a| = |x + a|$ admit one solution.

A. $a = -1$

B. $a = 1$

C. $a = -\frac{1}{2}$

D. $a = 0$

$3x + 3a = x + a$ or $2x + 3a = -(x + a)$

$-x \quad -x \qquad\qquad 2x + 3a = -x - a$

$2x + 3a = a \qquad\qquad +x \quad +x$

$-3a \quad -3a \qquad\qquad 3x + 3a = -a$

$2x = -2a \qquad\qquad -3a \quad -3a$

$x = -a \qquad\qquad 3x = -4a$

$x = -\frac{4}{3}a$

From (5) (6) to get one solution

$-a = -\frac{4}{3}a$

$-a + \frac{4}{3}a = 0$

$a(-1 + \frac{4}{3}) = 0$

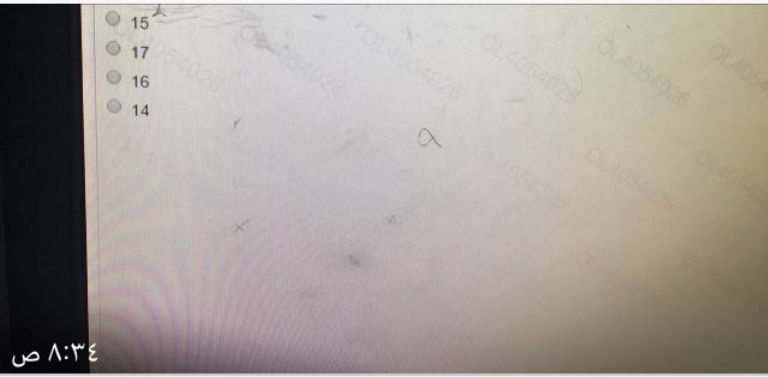
$a = 0$

4. Solve the following inequality

Question No. 21

If x-4 is a factor of the polynomial f(x) then

- $f(4) = 0$
- $f(0) = 4$
- $f(-4) = 0$
- $f(0) = -4$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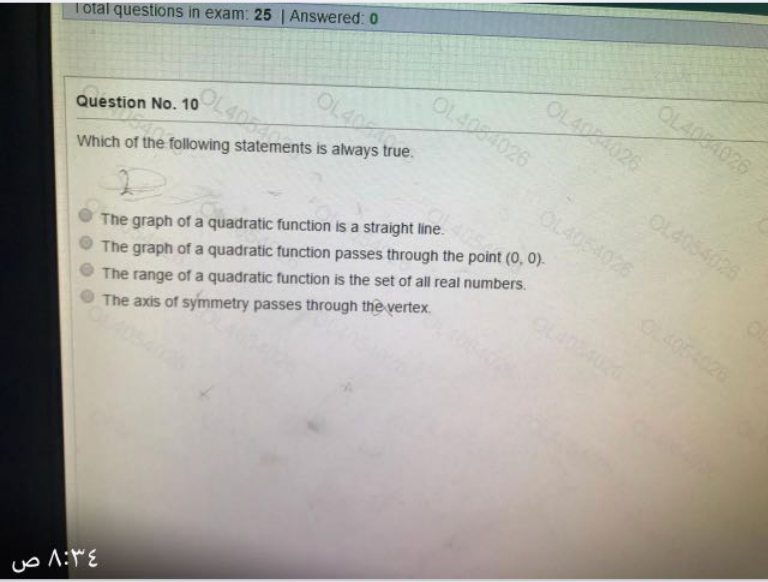
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exam: 25 | Answered: 0

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- a = -2