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Maths\_S

MKCL OES

Question No. 21

The degree of the quotient of the division  $(7x^4 - 4x^3 + 6x - 5) \div (x + 2)$  equals:

- 6
- 4
- 5
- 3

$$2x^3 - 18x^2 + 36x + 16$$

$$\begin{array}{r} x+2 \overline{) 7x^4 - 4x^3 + 6x - 5} \\ \underline{7x^4 + 14x^3} \phantom{- 5} \\ -18x^3 - 6x - 5 \phantom{- 5} \\ \underline{-18x^3 - 36x^2} \phantom{- 5} \\ 36x^2 - 6x - 5 \phantom{- 5} \\ \underline{36x^2 - 72x} \phantom{- 5} \\ 66x - 5 \phantom{- 5} \\ \underline{66x + 132} \\ -137 \end{array}$$

حد 4 في  
 ا كافي درجة 4 في  
 $(7x^4 - 4x^3 + 6x - 5) = 4$   
 ا كافي درجة 1 في  
 $(x + 2) = 1$   
 - الدرجة الكاملة =  
 $4 - 1 = 3$

Save & Next



Total questions in exam: 25 | Answered: 5

Question No. 6

Evaluate  $-\left(\frac{27x^3}{64}\right)^{-4/3}$

- $-\frac{256}{81x^4}$
- $\frac{81x^4}{256}$
- $-\frac{81x^4}{256}$
- $\frac{256}{81x^4}$

$$-\left(\frac{64}{27x^3}\right)^{\frac{4}{3}}$$

$$(2^6)^{\frac{4}{3}}$$

$$\frac{\rightarrow}{((3x)^3)^{\frac{4}{3}}}$$

$$= -\frac{2^{\frac{6 \times 4}{3}}}{(3x)^{\frac{3 \times 3}{4}}} = -\frac{2^8}{(3x)^4}$$

$$= -\frac{256}{81x^4}$$

Total questions in exam: 25 | Answered: 5

Question No. 6

Evaluate  $\left(\frac{27x^3}{64}\right)^{-4/3}$

$\frac{256}{81x^4}$

$\frac{81x^4}{256}$

$\frac{81x^4}{256}$

$\frac{256}{81x^4}$

Total questions in exam: 25 | Answered: 8

Question No. 1

Perform this division  $(6m^2 + 13m - 15) \div (m + 3)$

- $6m - 5$
- $6m - 5 + \frac{4}{m-5}$
- $m - 5$
- $6m + 5$

بالتعويض \*

$$= \frac{(6m - 5)(m + 3)}{m + 3}$$

$$= 6m - 5$$



Total questions in exam: 25 | Answered: 2

Question No. 4

Find the value of the discriminate for this equation  $x^2 + 5x - 6 = 0$ 

- 7  
 49  
 0  
 1

Mode  $\rightarrow 5 \rightarrow 3$ 

بالخاصية من

حل في:

بالطريقة

التي

$$(x-1)(x+6)$$

$$x+6=0$$

$$x_1 = -6$$

$$x-1=0$$

$$x_2 = 1$$

Save & Next  
حفظ التالي

Total questions in exam: 25 | Answered: 2

Question No. 4

Find the value of the discriminate for this equation  $x^2 + 5x - 6 = 0$

- 7
- 49
- 0
- 1

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Total questions in exam: 25 | Answered: 1

Question No. 3

Given that  $A = \{2,5\}$  and  $B = \{7\}$  then

- $A \cap B = \{7\}$
- $B \subseteq A$
- A and B are disjoint sets
- $A \cup B = \{2,5\}$



The solution set of the equation  $6(x-2)=2-x$  is

- {2}
- {2, -2}
- 2
- $\emptyset$

$$6x - 12 = 2 - x$$

$$6x + x = 2 + 12$$

$$7x = 14$$

$$x = 2$$



Total questions in exam: 25 | Answered: 12

Question No. 13

Find the quotient  $\frac{x+1}{x-1} \div \frac{x^2-1}{x^3-1}$

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

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

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

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

$$\frac{\cancel{x+1}}{x-1} \times \frac{(\cancel{x-1})(x^2+x+1)}{(\cancel{x-1})(\cancel{x+1})}$$

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

\* نولج \*

\*  $x^3-1 = x^3-1^3$

\*  $x^2-1 = x^2-1^2$

Total questions in exam: 25 | Answered: 12

Question No. 13

Find the quotient  $\frac{x+1}{x-1} \div \frac{x^2-1}{x^3-1}$

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

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

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

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

Total questions in exam: 25 | Answered: 12

Question No. 14

Use the quadratic formula to solve this equation:

$$3 - x^2 = 4x$$

- $x = -2 \pm \sqrt{7}$
- $x = -2 \pm 2\sqrt{7}$
- $x = -1 \pm \sqrt{7}$
- $x = 2 \pm \sqrt{7}$

ننقل  $4x$  للعزيم الثاني

$$3 - x^2 - 4x = 0$$

\* نرتب المعادله

$$-x^2 - 4x + 3 = 0$$

بالايسية =  $\rightarrow \rightarrow \rightarrow$  mode



Total questions in exam: 25 | Answered: 12

Question No. 14

Use the quadratic formula to solve this equation:

$$3 - x^2 = 4x$$

- $x = -2 \pm \sqrt{7}$
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- $x = 2 \pm \sqrt{7}$



Total questions in exam: 25 | Answered: 12

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- $x = -1 \pm \sqrt{7}$
- $x = 2 \pm \sqrt{7}$

Total questions in exam: 25 | Answered: 12

## Question No. 15

Factor :  $(4x - y)^3 - 125$ 

- $((4x - y) + 5)((4x - y)^2 - 5(4x - y) + 25)$
- $((4x - y) + 5)((4x - y)^2 - 10(4x - y) + 25)$
- $((4x - y) - 5)((4x - y)^2 + 5(4x - y) + 25)$
- $((4x - y) - 5)((4x - y)^2 + 10(4x - y) + 25)$

$$(4x - y)^3 - 5^3$$

$$[(4x - y) - 5][(4x - y)^2 + 5(4x - y) + 25]$$

Total questions in exam: 25 | Answered: 1

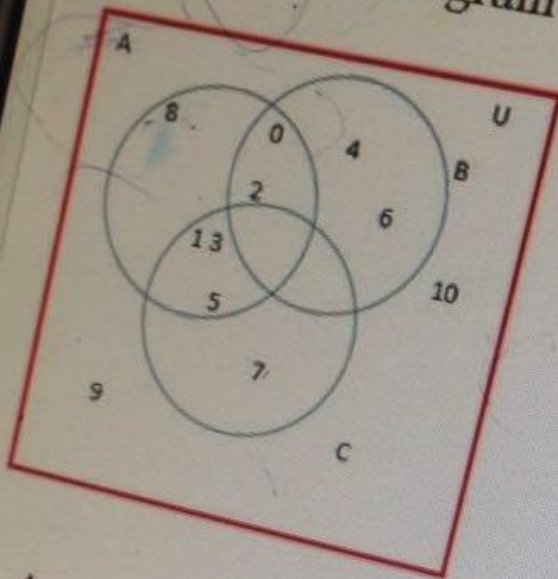
Question No. 3

Given that  $A = \{2,5\}$  and  $B = \{7\}$  then

- $A \cap B = \{7\}$
- $B \subseteq A$
- A and B are disjoint sets
- $A \cup B = \{2,5\}$



Use the Venn diagram to determine  $A \cap B'$



- $A \cap B' = \{0, 2\}$
- $A \cap B' = \{0, 1, 2, 3, 5\}$
- $A \cap B' = \{1, 3, 5, 8\}$
- $A \cap B' = \{\}$

$$A = \{0, 1, 2, 3, 5, 8\}$$

$$B' = \{1, 3, 6, 7, 8, 9, 10\}$$



Total questions in exam: 25 | Answered: 12

Question No. 14

Use the quadratic formula to solve this equation:

$$3 - x^2 = 4x$$

$x = -2 \pm \sqrt{7}$

$x = -2 \pm 2\sqrt{7}$

$x = -1 \pm \sqrt{7}$

$x = 2 \pm \sqrt{7}$

Total questions in exam: 25 | Answered: 5

Question No. 6

Evaluate  $\left(\frac{27x^3}{64}\right)^{-4/3}$

$\frac{256}{81x^4}$

$\frac{81x^4}{256}$

$\frac{81x^4}{256}$

$\frac{256}{81x^4}$

Total questions in exam: 25 | Answered: 0

## Question No. 1

The solution set of the equation  $6(x-2)=2-x$  is

- $\emptyset$
- $\{2\}$
- 2
- $\{2, -2\}$

B

Total questions in exam: 25 | Answered: 3

Question No. 4

Simplify  $(-5p^4)(-8p^3)$

$-40p^{12}$

$40p^{12}$

$40p^7$

$-40p^7$

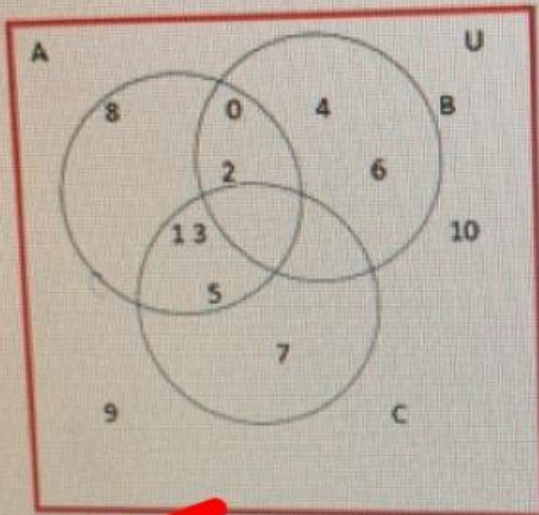
$$(-5 \times -8) p^{4+3}$$

$$40 p^7$$



Question No. 7

Use the Venn diagram to determine U

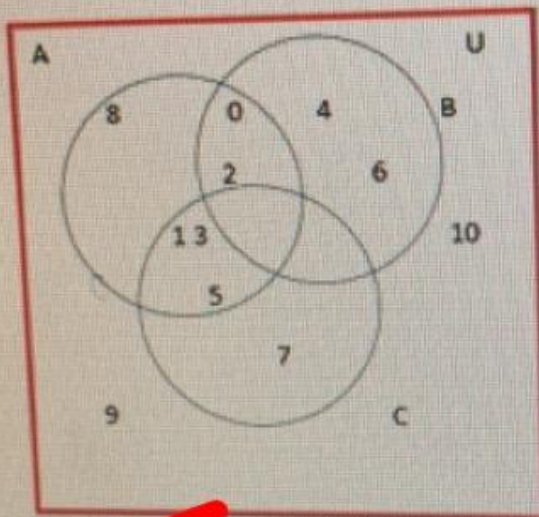


- U = {9, 10}
- U = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
- U = {}
- U = {0, 1, 2, 3, 4, 5, 6, 7, 8}

B

Question No. 7

Use the Venn diagram to determine U



- U = {9, 10}
- U = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
- U = {}
- U = {0, 1, 2, 3, 4, 5, 6, 7, 8}



Total questions in exam: 25 | Answered: 0

Question No. 1

The value of  $\sqrt{-4}$  is

- 2
- 2i
- 2
- 2i



Total questions in exam: 25 | Answered: 1

Question No. 2

Factor:  $6x^2 - x - 15$

$(2x - 3)(3x - 5)$

$(2x + 3)(3x - 5)$

$(6x + 3)(x - 5)$

$(6x - 3)(x + 5)$

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Mod  $c \rightarrow 5 \rightarrow 3$

Total questions in exam: 25 | Answered: 2

Question No. 3

Perform the indicated operation.

$$(-4 + 8i) \div -6i$$

- $\frac{4}{3} - \frac{2}{3}i$
- $\frac{4}{3} + \frac{2}{3}i$
- $-\frac{4}{3} + \frac{2}{3}i$
- $-\frac{4}{3} - \frac{2}{3}i$

جواب 36

mod  $\rightarrow 2$

Total questions in exam: 25 | Answered: 8

Question No. 10

Using set notation, the elements belonging to the set:  
{x| x is a natural number less than 2} are

- $\emptyset$
- $\{\emptyset\}$
- $\{1\}$
- $\{0\}$



Question No. 4

Simplify  $\left[ \frac{x^2 y^{-2/3}}{x^{-1/2} y^{-3}} \right]^{-1/7}$

$\frac{1}{x^{5/14} y^{1/3}}$

$\frac{1}{x^{3/14} y^{1/3}}$

$\frac{1}{x^{3/14} y^{11/21}}$

$x^{5/14} y^{1/3}$

$$= \left[ \frac{x^{-1/2} y^{-3}}{x^2 y^{-2/3}} \right]^{-1/7}$$

$$= \left[ \frac{y^{2/3}}{x^2 \cdot x^{1/2} \cdot y^3} \right]^{-1/7}$$

$$= \frac{y^{2/21}}{x^{5/14} \cdot y^{3/7}} = \frac{y^{2/21 - 3/7}}{x^{5/14}}$$

$$= \frac{y^{-1/3}}{x^{5/14}} = \frac{1}{x^{5/14} y^{1/3}}$$

Question No. 18

If a, b and c are real numbers with  $a = b$ , then

- $a + c = -(b + c)$
- $a + c > b + c$
- $a + c < b + c$
- $a + c = b + c$

### Question No. 10

The equation  $x^2 + 225 = 0$  has

- 2 real solutions
- 2 imaginary solutions
- 1 real solution
- No solution

$$x^2 = -225$$

$$x = \sqrt{-225}$$

$$x = \pm 15i$$



Total questions in exam: 25 | Answered: 7

Question No. 5

The solution set of the equation  $2(x+3)=2x-6$  is

$\emptyset$

1

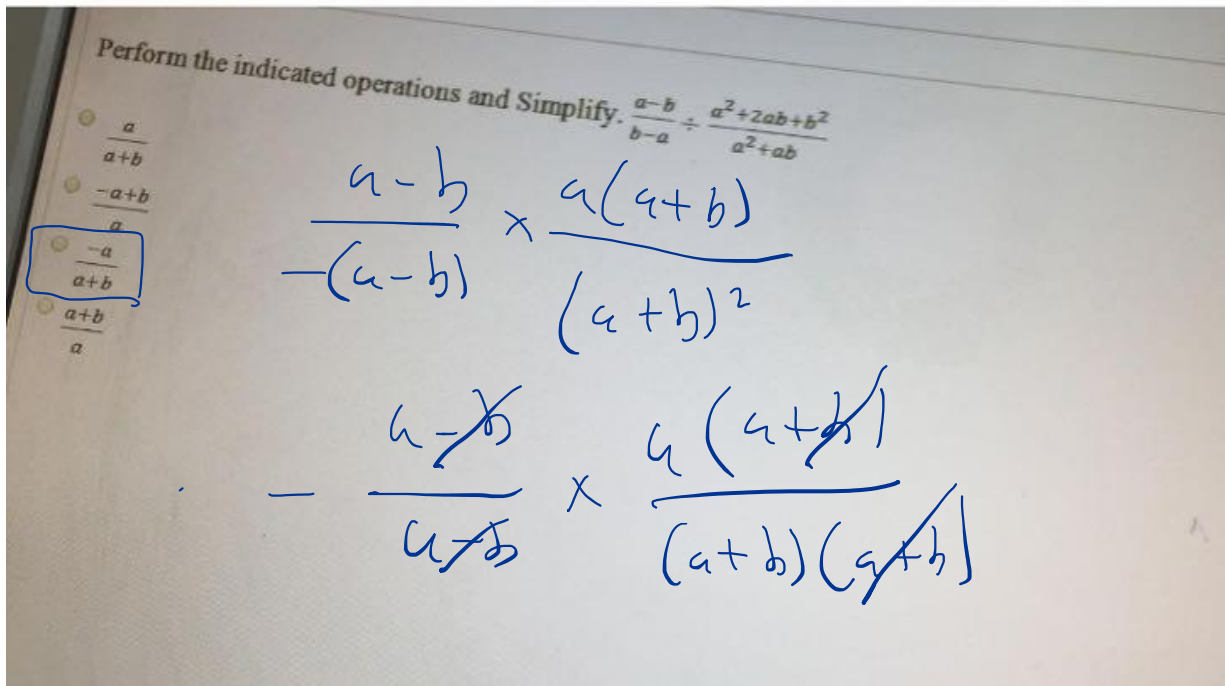
All real numbers

{2,3}

$$2x + 6 = 2x - 6$$

$$\begin{array}{r} -2x \quad \quad -2x \\ \hline \end{array}$$

$$6 \neq -6$$



$$= -\frac{a}{a+b}$$



Total questions in exam: 25 | Answered: 11

## Question No. 11

Which one of the following equations is a conditional linear equation?

$3(5x - 3) = 15x + 19$

$x^2 - 1 = 0$

$\frac{5}{3}x - \frac{4}{3} = 11$

$-2(x + 6) + 3x = x - 12$

$$\frac{5x - 4}{3} = 11$$

$$5x - 4 = 33$$

$$5x = 37$$

$$x = \frac{37}{5}$$



Total questions in exam: 25 | Answered: 11

## Question No. 11

Which one of the following equations is a conditional linear equation?

- $3(5x - 3) = 15x + 19$
- $x^2 - 1 = 0$
- $\frac{5}{3}x - \frac{4}{3} = 11$
- $-2(x + 6) + 3x = x - 12$

Total questions in exam: 25 | Answered: 11

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- $-2(x + 6) + 3x = x - 12$



Question No. 20

Perform the division  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3}$

●  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 - \frac{2}{xy - 3}$

●  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = -x^2y^2 + 1 - \frac{2}{xy - 3}$

●  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 - 1 + \frac{2}{xy - 3}$

●  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 + \frac{2}{xy - 3}$

$x^2y^2 + 1$

$$\begin{array}{r} xy - 3 \overline{) x^3y^3 - 3x^2y^2 + xy - 1} \\ \underline{x^3y^3 - 3x^2y^2} \phantom{+ xy - 1} \\ \phantom{x^3y^3 - 3x^2y^2} xy - 1 \end{array}$$

$$\begin{array}{r} \cancel{xy} - 1 \\ - \cancel{xy} - 3 \\ \hline 2 \end{array}$$



Total questions in exam: 25 | Answered: 12

Question No. 20

Perform the division  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3}$ 

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = -x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 - 1 + \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 + \frac{2}{xy - 3}$

## Question No. 12

The set of irrational numbers from  $\{-7, -\sqrt{5}, -2, -\frac{1}{6}, 0, 1, 2\frac{1}{3}, \sqrt{25}, \frac{17}{2}\}$  is

- $\{-\sqrt{5}, -\frac{1}{6}, 0, 2\frac{1}{3}, \sqrt{25}, \frac{17}{2}\}$
- $\{-\sqrt{5}, \sqrt{25}\}$
- $\{-7, -2\}$
- $\{-\sqrt{5}\}$

## Question No. 12

The set of irrational numbers from  $\{-7, -\sqrt{5}, -2, -\frac{1}{6}, 0, 1, 2\frac{1}{3}, \sqrt{25}, \frac{17}{2}\}$  is

- $\{-\sqrt{5}, -\frac{1}{6}, 0, 2\frac{1}{3}, \sqrt{25}, \frac{17}{2}\}$
- $\{-\sqrt{5}, \sqrt{25}\}$
- $\{-7, -2\}$
- $\{-\sqrt{5}\}$



Question No. 16

Solve  $\frac{5x}{3} - x = \frac{x}{24} - \frac{7}{8}$

$-\frac{21}{17}$

$\frac{7}{5}$

$\frac{21}{17}$

$-\frac{7}{5}$

Question No. 16

Solve  $\frac{5x}{3} - x = \frac{x}{24} - \frac{7}{8}$

$-\frac{21}{17}$

$\frac{7}{5}$

$\frac{21}{17}$

$-\frac{7}{5}$

بالقرينة

Question No. 16

Solve  $\frac{5x}{3} - x = \frac{x}{24} - \frac{7}{8}$

$-\frac{21}{17}$

$\frac{7}{5}$

$\frac{21}{17}$

$-\frac{7}{5}$



Question No. 16

Solve  $\frac{5x}{3} - x = \frac{x}{24} - \frac{7}{8}$

$-\frac{21}{17}$

$\frac{7}{5}$

$\frac{21}{17}$

$-\frac{7}{5}$

Question No. 16

Solve  $\frac{5x}{3} - x = \frac{x}{24} - \frac{7}{8}$

$-\frac{21}{17}$

$\frac{7}{5}$

$\frac{21}{17}$

$-\frac{7}{5}$

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ص 9:31

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Total questions in exam: 25 | Answered: 12

Question No. 20

Perform the division  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = -x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 - 1 + \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 + \frac{2}{xy - 3}$





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$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 - 1 + \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 + \frac{2}{xy - 3}$

تحديد

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MKCL OES

Online Examination System

Total questions in exam: 25 | Answered: 12

Question No. 20

Perform the division  $\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = -x^2y^2 + 1 - \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 - 1 + \frac{2}{xy - 3}$

$\frac{x^3y^3 - 3x^2y^2 + xy - 1}{xy - 3} = x^2y^2 + 1 + \frac{2}{xy - 3}$



## MKCL OES

Online Examination System

Total questions in exam: 25 | Answered: 11

## Question No. 11

Which one of the following equations is a conditional linear equation?

$3(5x - 3) = 15x + 19$

$x^2 - 1 = 0$

$\frac{5}{3}x - \frac{4}{3} = 11$

$-2(x + 6) + 3x = x - 12$





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Total questions in exam: 25 | Answered: 0

Question No. 1

Simplify:  $\frac{\frac{3}{4} \frac{4}{1}}{\frac{4x}{9x} \frac{3}{4x^2}}$

$\frac{1}{3x}$

$3x$

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

$-3x$

استناد إلى الصيغة  
كذا:

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

$$\frac{\frac{4}{9x} - \frac{1}{4x^2}}$$

بالقوى على  $x$  بوالله

يطلع 3-

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Perform the indicated operations and Simplify.  $\frac{a-b}{b-a} \div \frac{a^2+2ab+b^2}{a^2+ab}$

•  $\frac{a}{a+b}$

•  $\frac{-a+b}{a}$

•  $\frac{-a}{a+b}$

•  $\frac{a+b}{a}$

Question No. 1

Solving the equation  $2(3x-4a)+4b=5x+4(b-a)$  for  $x$  gives

$x = 4a$

$x = \frac{b-a}{3b+5a}$

$x = \frac{2a}{4b}$

$x = -4a$

$$6x - 8a + 4b = 5x + 4b - 4a$$

$$6x - 5x = 4b - 4a + 8a - 4b$$

$$x = 4a$$



Question No. 13

Find this product  $\frac{6p-6}{p} \times \frac{2p^2}{9p-9}$

$\frac{4p}{3}$

$\frac{1}{4p}$

$\frac{12p^2-12p^2}{9p^2-9p}$

$\frac{54p^2+108p+54}{2p^2}$

$$\frac{6(p-1)}{\cancel{p}} \times \frac{2\cancel{p}^2}{9(p-1)}$$
$$\frac{4p}{3}$$

$$\frac{4p}{3}$$

Save & Next

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Total questions in exam: 25 | Answered: 2

Question No. 3

Perform the indicated operation.

$$(-4 + 8i) \div -6i$$

$\frac{4}{3} - \frac{2}{3}i$

$\frac{4}{3} + \frac{2}{3}i$

$-\frac{4}{3} + \frac{2}{3}i$

$-\frac{4}{3} - \frac{2}{3}i$

Simplify:  $\frac{\frac{2}{x-y} + \frac{1}{x+y}}{\frac{1}{x-y}}$

$$\frac{2x+2y+x-y}{(\cancel{x-y})(x+y)} \times (\cancel{x-y})$$

●  $\frac{3x+y}{x^2-y^2}$

●  $\frac{3x-y}{x+y}$

●  $\frac{3x+y}{x+y}$

●  $\frac{3x+y}{x-y}$

$$\frac{2x+2y+x-y}{(x+y)}$$

$$\frac{3x+y}{x+y}$$



Which one of the following equations is an identity?

$-2(x + 6) + 3x = x - 12$

$\frac{5}{3}x - \frac{4}{3} = 11$  🖱

$x^2 - 1 = 0$

$3(5x - 3) = 15x + 19$

## Question No. 1

Select the correct property that describes the given equation.

$$x + (y + 3) = x + (3 + y)$$

- Associative property of multiplication
- Commutative property of addition
- Identity property of addition
- Inverse property of addition

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Question No. 8

Using set notation, the elements belonging to the set:  
{x | x is a natural number less than 2} are:

{1}

{0}

$\emptyset$

{ $\emptyset$ }

Save & Next 10/30

HP LE1901w



Question No. 3

The domain of  $\frac{x+1}{(x+3)(2x-3)}$  is

$R \setminus \{-3, \frac{3}{2}\}$

$R \setminus \{-3\}$

$R \setminus \{3, \frac{-3}{2}\}$

$R \setminus \{-3, 3\}$

$x + 3 \Rightarrow x = -3$

$2x - 3 \Rightarrow 2x = 3$   
 $x = \frac{3}{2}$

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Question No. 3

The domain of  $\frac{x+1}{(x+3)(2x-3)}$  is

- $R \setminus \{-3, \frac{3}{2}\}$
- $R \setminus \{-3\}$
- $R \setminus \{3, \frac{-3}{2}\}$
- $R \setminus \{-3, 3\}$

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Question No. 3

The domain of  $\frac{x+1}{(x+3)(2x-3)}$  is

- $R \setminus \{-3, \frac{3}{2}\}$
- $R \setminus \{-3\}$
- $R \setminus \{3, \frac{-3}{2}\}$
- $R \setminus \{-3, 3\}$

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Total questions in exam: 25 | Answered: 0

Question No. 1

Simplify  $\frac{x^2 \times y^{-\frac{5}{2}}}{(x^{\frac{1}{2}} \times y^{-1})^2}$

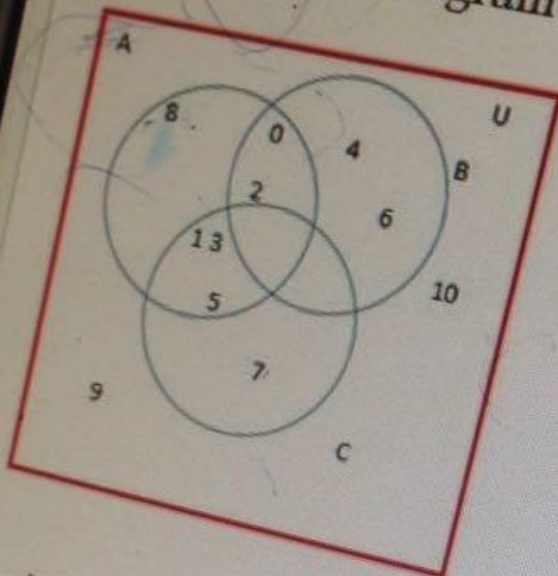
- $y \cdot x^{-\frac{1}{3}}$
- $x^{\frac{1}{2}} y^{\frac{1}{6}}$
- $x^{\frac{1}{2}} \cdot y^{-\frac{5}{2}}$
- $x \cdot y^{\frac{1}{2}}$

الخيار 1 = خطأ

والجواب يمكن يكون

$$\frac{x \cdot y^{\frac{1}{2}}}{y}$$

Use the Venn diagram to determine  $A \cap B'$



- $A \cap B' = \{0, 2\}$
- $A \cap B' = \{0, 1, 2, 3, 5\}$
- $A \cap B' = \{1, 3, 5, 8\}$
- $A \cap B' = \{\}$



⬅ Back ❤️ 1 ماث الكويز الأول.pdf

Question No. 7

Solve  $A = P(1 + nr)$  for  $r$

●  $r = \frac{P-A}{Pn}$

●  $r = \frac{Pn}{A-P}$

●  $r = \frac{A-P}{Pn}$

●  $r = \frac{A}{n}$

$$A = P + Pnr$$

$$A - P = Pnr$$

$$r = \frac{A - P}{Pn}$$





Question No. 23

The exponent of  $(2xy)^3$  is

- 3
- 6
- $2xy$
- 2

Exponent = الأس / القوى

Total questions in exam: 25 | Answered: 8

## Question No. 8

Simplify the expression  $\sqrt{(x-10)^2}$ 

$x - 10$

$|x + 10|$

$x + 10$

$|x - 10|$

Total questions in exam: 25 | Answered: 8

## Question No. 8

Simplify the expression  $\sqrt{(x-10)^2}$ 

- $x - 10$
- $|x + 10|$
- $x + 10$
- $|x - 10|$



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Total questions in exam: 25 | Answered: 8

Question No. 1

Perform this division  $(6m^2 + 13m - 15) \div (m + 3)$ 

- $6m - 5$
- $6m - 5 + \frac{4}{m-5}$
- $m - 5$
- $6m + 5$

$$\frac{(6m - 5)(\cancel{m + 3})}{\cancel{m + 3}}$$

Question No. 14

The solution set of the equation  $\frac{1}{20}(2x + 5) = \frac{x+2}{5}$  is

- $\left\{\frac{2}{3}\right\}$
- $\left\{-\frac{2}{3}\right\}$
- $\left\{-\frac{3}{2}\right\}$
- $\left\{\frac{3}{2}\right\}$

بالجواب

## Question No. 12

If  $A = \{1, 2, 3, 4, 5, 6\}$  then

- $1 \notin A$
- $\{1, 4\} \subseteq A$
- $\{1\} \in A$
- $\{0, 1\} \subseteq A$

 $\in \Rightarrow$ کون سا ہیں  
مستند و صحیح $\subseteq \Rightarrow$ کون سا ہیں  
صحیح ہیں



### Question No. 10

---

The equation  $x^2 + 225 = 0$  has

- 2 real solutions
- 2 imaginary solutions
- 1 real solution
- No solution

Question No. 1

Factor completely:  $y^4 - 13y^2 + 36$ 

$(y-2)(y-3)(y+3)(y+2)$

$(y^2-4)(y^2-9)$

$(y^2+4)(y^2+9)$

$(y^2-6)^2$

$$= a^2 - 13a + 36$$

$$= (a-9)(a-4)$$

$$= (y^2-9)(y^2-4)$$

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

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Question No. 1

Factor completely:  $y^4 - 13y^2 + 36$

$(y-2)(y-3)(y+3)(y+2)$

$(y^2-4)(y^2-9)$

$(y^2+4)(y^2+9)$

$(y^2-6)^2$

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Question No. 3

Solve  $\frac{x-15}{5} + \frac{x+9}{9} = x+4$

$\frac{54}{31}$

$\frac{216}{31}$

$\frac{270}{31}$

$\frac{144}{31}$

ب36

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Total questions in exam: 25 | Answered: 19

## Question No. 23

Suppose that  $n \in \mathbb{N}$  and  $n < 4$ . The degree of the polynomial

$$(x^n y^4 - 2x^2 y + x^3 y) \cdot (y^n x^2 - 3x^n y + 5y^9)$$
 is

- $n + 13$
- 12
- 13
- $(n + 4)(n + 2)$

اسکی درجہ سے اولیٰ =  $n + 4$

اسکی درجہ سے اسانی = 9

اساتجہ :

$$n + 4 + 9 = n + 13$$

Total questions in exam: 25 | Answered: 19

## Question No. 23

Suppose that  $n \in \mathbb{N}$  and  $n < 4$ . The degree of the polynomial  $(x^n y^4 - 2x^2 y + x^3 y) \cdot (y^n x^2 - 3x^n y + 5y^9)$  is

- $n + 13$
- 12
- 13
- $(n + 4)(n + 2)$



## Question No. 11

The imaginary unit  $i$  equal to

- 1
- $-\sqrt{-1}$
- $(-1)^2$
- $\sqrt{-1}$

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## Question No. 11

The imaginary unit  $i$  equal to

- 1
- $-\sqrt{-1}$
- $(-1)^2$
- $\sqrt{-1}$

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Question No. 10

The union  $\{1, 2, 3, 5, 6, 7\} \cup \{4, 5, 6, 10\}$  is

- $\emptyset$
- $\{1, 2, 3, 4, 6, 7, 10\}$
- $\{5, 6\}$
- $\{1, 2, 3, 4, 5, 6, 7, 10\}$



Question No. 12

Evaluate for  $x = -2, y = 5,$  and  $z = -3$  the expression:  $\frac{\frac{x}{z} \cdot \frac{y}{5}}{\frac{3z}{9} + \frac{6y}{5}}$

- $\frac{-2}{6}$
- $\frac{7}{2}$
- $\frac{-2}{7}$
- $\frac{6}{2}$

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Total questions in exam: 25 | Answered: 5

Question No. 1

Use the discriminant to determine the type of the solution for

$$4x^2 = 6x - 7$$

- 2 irrational solutions
- 2 complex solutions
- 1 rational solution
- 2 rational solutions

$$4x^2 - 6x + 7 = 0$$



Total questions in exam: 25 | Answered: 5

Question No. 1

Use the discriminant to determine the type of the solution for

$$4x^2 = 6x - 7$$

- 2 irrational solutions
- 2 complex solutions
- 1 rational solution
- 2 rational solutions



Total questions in exam: 25 | Answered: 5

Question No. 1

Use the discriminant to determine the type of the solution for

$$4x^2 = 6x - 7$$

- 2 irrational solutions
- 2 complex solutions
- 1 rational solution
- 2 rational solutions

Question No. 12

Factor :  $(4x - y)^3 - 125$

- $((4x - y) - 5)((4x - y)^2 + 5(4x - y) + 25)$
- $((4x - y) - 5)((4x - y)^2 + 10(4x - y) + 25)$
- $((4x - y) + 5)((4x - y)^2 - 5(4x - y) + 25)$
- $((4x - y) + 5)((4x - y)^2 - 10(4x - y) + 25)$

Question No. 1

Determine the following intersection  $\emptyset \cap \{6,7\} =$

- {7}
- {6}
- $\emptyset$
- {6,7}



Question No. 7

Solve  $A = P(1 + nr)$  for  $r$

$r = \frac{P-A}{Pn}$

$r = \frac{Pn}{A-P}$

$r = \frac{A-P}{Pn}$

$r = \frac{A}{n}$

Total questions in exam: 25 | Answered: 19

Question No. 25

Solving the equation  $2(3x-4a)+4b=5x+4(b-a)$  for  $x$  gives

$$6x - 8a + 4b = 5x + 4b - 4a$$

$x = \frac{b-a}{3b+5a}$

$x = -4a$

$x = 4a$

$x = \frac{2a}{4b}$

$$6x - 5x = 4b - 4a + 8a - 4b$$

$$x = 4a$$

Question No. 2

Use set notation, and write the elements belonging to the set  
( $x \mid x$  is a natural number less than 1)

- $\emptyset$
- $\{\emptyset\}$
- $\{1\}$
- $\{0\}$



Question No. 7

Simplify  $(-5p^4)(-8p^3)$

- $40p^7$
- $40p^{12}$
- $-40p^7$
- $-40p^{12}$

## Question No. 18

Simplify and express your answer using positive exponents only.

$$\left( \frac{m^{-7} m^2}{m^3 m^{-5}} \right)^3 = \left( \frac{m^{-7} m^2}{m^8 m^{-5}} \right)^3$$

$$= \left( \frac{m^{-5}}{m^3} \right)^3 = \left( \frac{1}{m^5 m^3} \right)^3$$

$$= \left( \frac{1}{m^8} \right)^3 = \frac{1}{m^{24}}$$

$m^{24}$

$\frac{1}{m^{11}}$

$m^{11}$

$\frac{1}{m^{24}}$

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Question No. 23

Suppose  $x$  is a real number. Evaluate the expression  $-3(x-1)^0$

- 3 if  $x \neq 0$
- 3
- 3 if  $x \neq 0$
- 3 if  $x \neq 1$

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Total questions in exam: 25 | Answered: 16

## Question No. 19

The roots of  $x^2 = -3x - 6$  are

- $\frac{3 \pm i\sqrt{15}}{2}$
- $\frac{-3 \pm i\sqrt{15}}{2}$
- $\frac{-3 \pm \sqrt{33}}{2}$
- $\frac{-3 \pm \sqrt{15}}{2}$

Total questions in exam: 25 | Answered: 14

Question No. 17

Find the sum  $x + \frac{1}{x} - \frac{3}{x^2}$

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

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

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



## Question No. 3

Perform the indicated operations  $3p(8pq^4)^{1/3} - 2q(p^4q)^{1/3}$

- $4(pq)^{4/3}$
- $4pq^{4/3}$
- $(pq)^{4/3}$
- $4p^{4/3}q$

Save & Next حفظ التالي



## Question No. 4

Solve  $A = P(1 + nr)$  for  $r$ 

- $r = \frac{A}{n}$
- $r = \frac{A-P}{Pn}$
- $r = \frac{Pn}{A-P}$
- $r = \frac{P-A}{Pn}$

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Total questions in exam: 25 | Answered: 0

Question No. 1

Suppose  $x$  is a real number. Evaluate the expression  $-3(x-1)^0$ 

- 3 if  $x \neq 1$
- 3
- 3 if  $x \neq 0$
- 3 if  $x \neq 0$



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Total questions in exam: 25 | Answered: 0

Question No. 1

Suppose  $x$  is a real number. Evaluate the expression  $-3(x-1)^0$ 

- 3 if  $x \neq 1$
- 3
- 3 if  $x \neq 0$
- 3 if  $x \neq 0$



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Total questions in exam: 25 | Answered: 8

Question No. 5

If  $U$  is a universal set then the complement of  $U$  is equal to

$\emptyset$

-1

$U$

1

Question No. 11

Simplify  $\frac{x^2 \times y^{-\frac{5}{2}}}{(x^{\frac{1}{2}} \times y^{-1})^2}$

- $x \cdot y^{\frac{1}{2}}$
- $y \cdot x^{-\frac{1}{2}}$
- $x^{\frac{1}{2}} y^{\frac{1}{6}}$
- $x^{\frac{1}{2}} \cdot y^{-\frac{5}{2}}$

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Total questions in exam: 25 | Answered: 8

Question No. 5

If  $U$  is a universal set then the complement of  $U$  is equal to

- $\emptyset$
- 1
- $U$
- 1



Question No. 21

The degree of the quotient of the division  $(7x^4 - 4x^3 + 6x - 5) \div (x + 2)$  equals:

- 6
- 4
- 5
- 3

السطح درجه 4 =

القسمة درجه 1 =

درجه ناتج قسمة =

$$4 - 1 = \boxed{3}$$

Save & Next

Question No. 12

Factor:  $4x^2 - y^2 - 6y - 9$

$(4x - y - 3)(4x + y + 3)$

$(4x - y - 3)(4x + y - 3)$

$(4x - y + 3)(4x + y - 3)$

$(4x - y + 3)(4x + y + 3)$

$$4x^2 - (y + 6y + 9)$$

$$4x^2 - (y + 3)(y + 3)$$

$$4x^2 - (y + 3)^2$$

$$(4x - y - 3)(4x + y + 3)$$

Total questions in exam: 25 | Answered: 5

Question No. 6

Evaluate  $\left(\frac{27x^3}{64}\right)^{-4/3}$

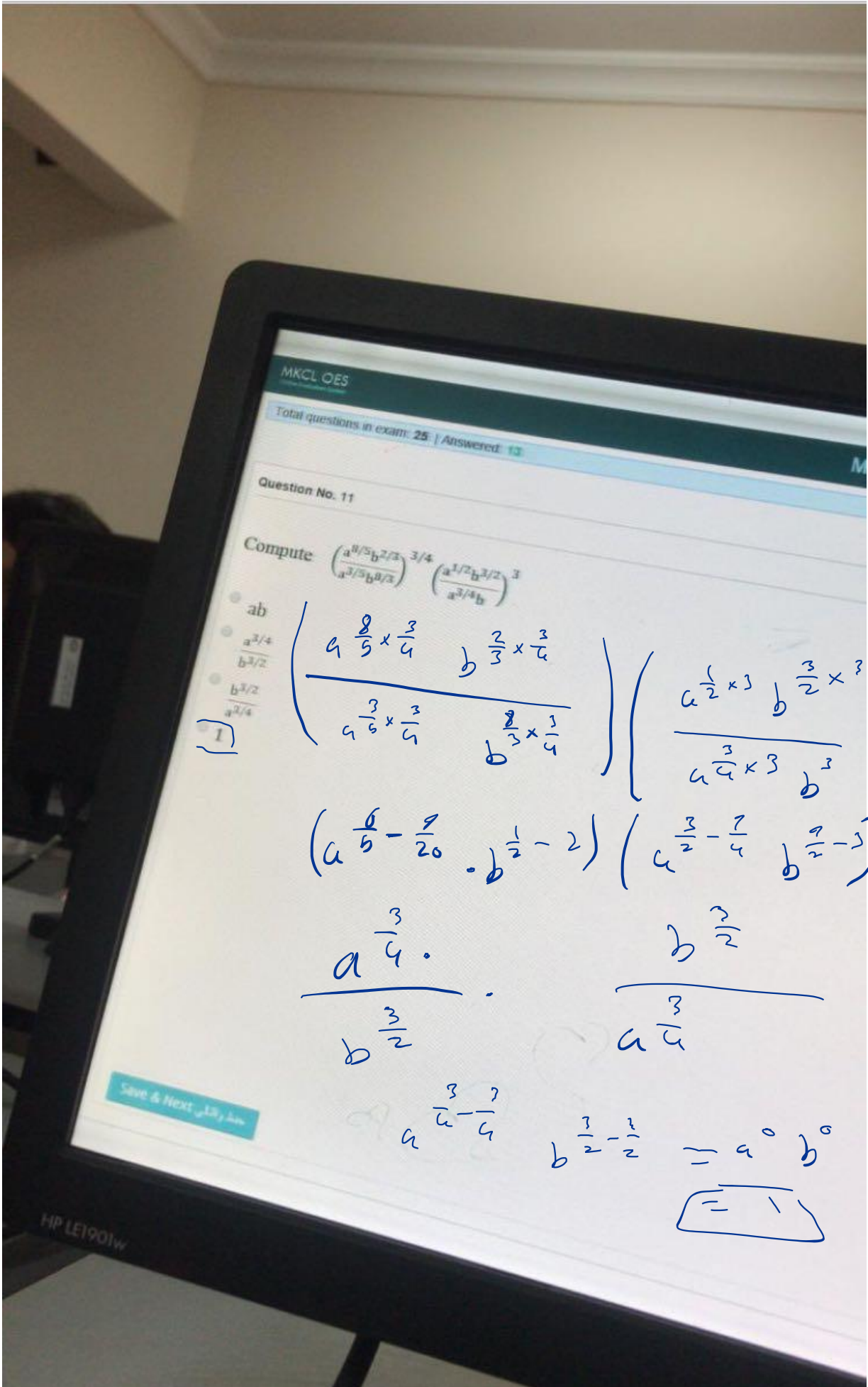
$\frac{256}{81x^4}$

$\frac{81x^4}{256}$

$\frac{81x^4}{256}$

$\frac{256}{81x^4}$





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Total questions in exam: 25 / Answered: 13

Question No. 11

Compute:  $\frac{(a^{2/5}b^{2/3})^{3/4}}{a^{3/5}b^{2/3}} \cdot \frac{(a^{1/2}b^{3/2})^3}{a^{3/4}b}$

- ab
- $a^{3/4}$
- $b^{3/2}$
- $\frac{b^{3/2}}{a^{3/4}}$

1

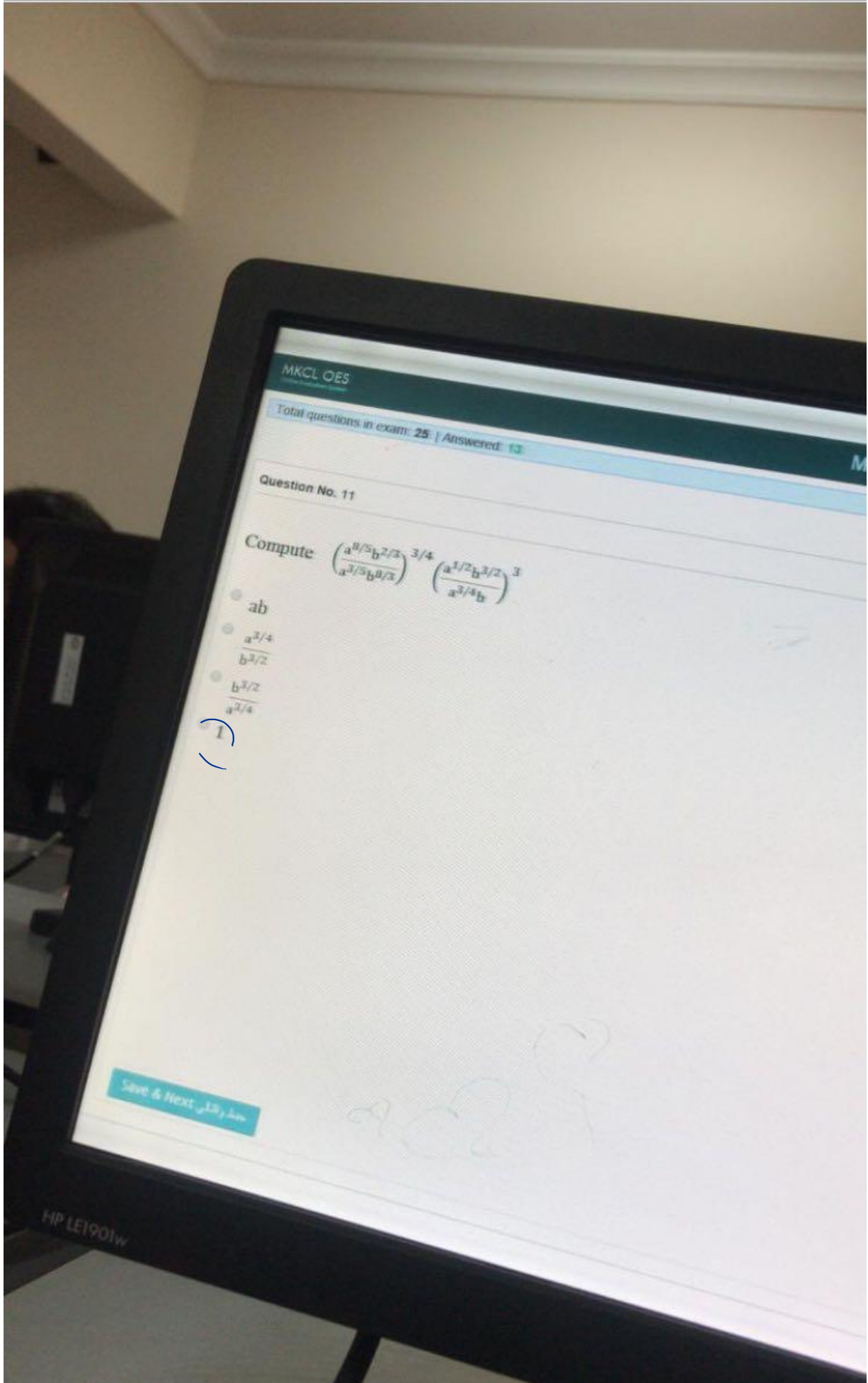
$$\left( \begin{array}{cc} a^{\frac{2}{5} \times \frac{3}{4}} & b^{\frac{2}{3} \times \frac{3}{4}} \\ a^{\frac{3}{5} \times \frac{3}{4}} & b^{\frac{2}{3} \times \frac{1}{4}} \end{array} \right) \left( \begin{array}{cc} a^{\frac{1}{2} \times 3} & b^{\frac{3}{2} \times 3} \\ a^{\frac{3}{4} \times 3} & b^3 \end{array} \right)$$

$$\left( a^{\frac{6}{20} - \frac{9}{20}} \cdot b^{\frac{1}{2} - 2} \right) \left( a^{\frac{3}{2} - \frac{9}{4}} \cdot b^{\frac{9}{2} - 3} \right)$$

$$\frac{a^{\frac{3}{4}}}{b^{\frac{3}{2}}} \cdot \frac{b^{\frac{3}{2}}}{a^{\frac{3}{4}}}$$

$$a^{\frac{3}{4} - \frac{3}{4}} \cdot b^{\frac{3}{2} - \frac{3}{2}} = a^0 b^0$$

$$= 1$$



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Total questions in exam: 25 / Answered: 13

Question No. 11

Compute:  $\left(\frac{a^{4/5} b^{2/3}}{a^{3/5} b^{2/3}}\right)^{3/4} \left(\frac{a^{1/2} b^{3/2}}{a^{3/4} b}\right)^3$

- ab
- $\frac{a^{3/4}}{b^{3/2}}$
- $\frac{b^{3/2}}{a^{2/4}}$
- 1

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Question No. 1

Simplify  $\frac{a^{\frac{1}{2}} \times b^{\frac{1}{2}}}{(ab)^{\frac{1}{2}}}$ 

- $a(ab)^{\frac{1}{2}}$
- $a(a^2b)^{\frac{1}{2}}$
- $a \cdot b^{\frac{1}{2}}$
- $(ab)^{\frac{1}{2}}$

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Question No. 1

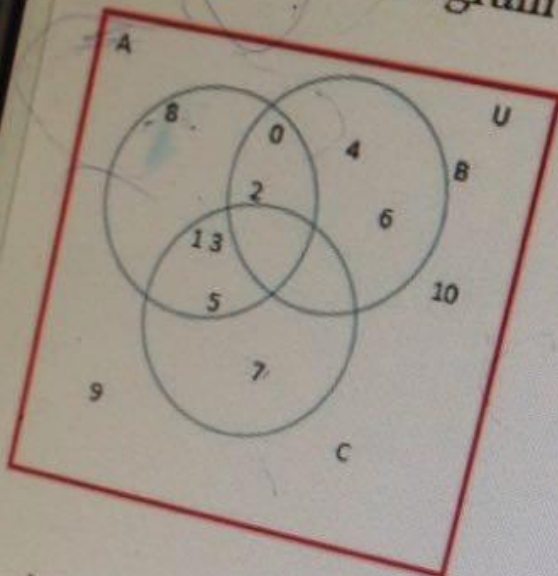
Simplify  $\frac{a^{\frac{1}{2}} \times b^{\frac{1}{2}}}{(ab)^{\frac{1}{2}}}$ 

- $a(ab)^{\frac{1}{2}}$
- $a(a^2b)^{\frac{1}{2}}$
- $a \cdot b^{\frac{1}{2}}$
- $(ab)^{\frac{1}{2}}$

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Use the Venn diagram to determine  $A \cap B'$



- $A \cap B' = \{0, 2\}$
- $A \cap B' = \{0, 1, 2, 3, 5\}$
- $A \cap B' = \{1, 3, 5, 8\}$
- $A \cap B' = \{\}$

## Question No. 1

Suppose  $x$  is a real number. Evaluate the expression  $-3(x-1)^0$

- $-3$  if  $x \neq 1$
- $-3$
- $3$  if  $x \neq 0$
- $-3$  if  $x \neq 0$



Question No. 17

Simplify  $\left(\frac{-4n^6m^4}{m^2}\right)^{-3/2}$

is not a real number

$-\frac{1}{8n^9m^3}$

$\frac{1}{8n^9m^3}$

$-8n^9m^3$



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Question No. 21

The degree of the quotient of the division  
 $(7x^4 - 4x^3 + 6x - 5) \div (x + 2)$  equals:

- 6
- 4
- 5
- 3

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Question No. 6

The base of  $-5p^4$  is

- 4
- 5
- p
- 5p

جواب دہانی Next



Question No. 9

Suppose that  $n \in \mathbb{N}$  and  $n < 4$ . The degree of the polynomial

$$(x^n y^4 - 2x^2 y + x^3 y) \cdot (y^n x^2 - 3x^n y + 5y^9)$$
 is

- $n + 13$
- 13
- $(n + 4)(n + 2)$
- 12

تجمیعات

ریاضیات کویز 1