Math

تسريبات الرياضيات ميد "١"

١٤٤١-٢٠٢٠

❤Never give up. Great things take time❤

دعواتكم

Nawaf Alharbi ❤

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

Question No. 25

Simplify the expression: $13 + 8 \div 2(8 - 2^2)$

- 29
- 3
- 33
- 27

Save & Next

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

Question No. 22

Factor $x^2 - 8x - 20$

- (x + 1)(x – 20)
- (x + 2)(x – 10)
- (x – 2)(x + 10)
- (x + 2)(x + 10)

Save & Next

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Question No. 23

Write $z=3\left(\frac{2+3i}{i}\right)$ in the standard form $z=a+bi$

- z= 9-6i
- z= -9-6i
- z= 9+6i
- z= -9+6i

Save & Next

Total questions in exam: 25 | Answered:

Question No. 24

The solution set of $(x+5)^2+10=5$ is

- $\{-5\pm\sqrt{5}\}$
- $\{5\pm\sqrt{5}\}$
- $\{\pm5\sqrt{5}\}$
- no real solutions

Save & Next

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

Question No. 20

Select the correct property that describes the given equation. $x + (y + 3) = x + (3 + y)$

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

Save & Next

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Question No. 19

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

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

Save & Next

Question No. 18

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

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

Save & Next

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

Question No. 17

The base of $-5p^4$ is

- -5p
- 5
- 4
- p

Save & Next

Question No. 13

Which one of the following equations is a contradiction?

- $3(5x-3)=15x+19$
- $-2(x+8)+3x=x-16$
- $5x-4=11$
- $x^2-4=0$

Save & Next

Question No. 14

Perform the indicated operation $\frac{(2a^{-1}b^2c^{-2})^2}{(3^{-1}b)(2^{-1}ac^{-2})^3}$

- $\frac{24b^3c^2}{a^5}$
- $\frac{96b^3c^2}{a^5}$
- $\frac{96bc^2}{a^5}$
- $\frac{24bc^2}{a^5}$

Save & Next

Question No. 15

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

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

Save & Next

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Question No. 16

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

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

Save & Next

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Question No. 12

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

- {2}
- 2
- {2, -2}
- ∅

Save & Next

Question No. 11

If A is any set then $A \cup \emptyset$ is equal to

- $\emptyset$
- 1
- A
- -1

Save & Next

Question No. 9

Simplify and write in the standard form of a complex number

$$\frac{8i}{4+9i}$$

- $-\frac{72}{97}+\frac{32}{97}i$
- $-\frac{72}{65}-\frac{32}{65}i$
- $\frac{72}{97}+\frac{32}{97}i$
- $\frac{72}{65}-\frac{32}{65}i$

Save & Next

Question No. 5

Simplify the expression by rationalizing the denominator: $\frac{3}{2+\sqrt{7}}$

- $4-\sqrt{7}$
- $2-\sqrt{7}$
- $-2+\sqrt{7}$
- $-4+\sqrt{7}$

Save & Next

Question No. 6

Simplify the expression: $-9y^0+(-9y)^0, y\neq 0$

- -2
- 8
- 0
- -8

Save & Next

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

Question No. 7

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

- {0}
- {Ø}
- Ø
- {1}

Save & Next

Question No. 8

Factor $4m^2 - 12m + 9$

- $(2m + 3)^2$
- $(2m - 7)(2m - 9)$
- $(2m - 3)^2$
- $(2m - 3)(2m + 3)$

Save & Next

Question No. 4

Factor: $(3u+5)^2 - 18(3u+5) + 81$

- $(3u+4)^2$
- $(3u+4)(3u-14)$
- $(3u+14)(3u-4)$
- $(3u-4)^2$

Save & Next

Question No. 1

Which of the following equations has solutions a and b?

- $x^2 - (a+b)x + ab = 0$
- $x^2 + (a+b)x - ab = 0$
- $x^2 + (a+b)x + ab = 0$
- $x^2 - (a+b)x - ab = 0$

Save & Next

Question No. 3

$(5m+2)^2$

- $25m^2+20m+4$
- $25m^2+4$
- $5m^2+4$
- $5m^2+20m+4$

Question No. 2

The simplified expression of $(-9)^{x/y}$ is positive if the values of x and y are equal to

- $x = 2,\ y = 2$
- $x = 8,\ y = 2$
- $x = 9,\ y = 3$
- $x = 6,\ y = 2$

Question No. 8

Factor the polynomial $x^4 + 5x^2 - 36$ completely

- $(x^2 - 4)(x^2 + 9)$
- $(x + 2)(x^2 + 9)$
- $(x - 2)(x + 2)(x^2 + 9)$
- $(x - 2)(x + 2)(x + 3)(x - 3)$

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

Question No. 25

Simplify the expression: $13 + 8 \div 2(8 - 2^2)$

- 29
- 3
- 33
- 27

Save & Next

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

Question No. 22

Factor $x^2 - 8x - 20$

- (x + 1)(x – 20)
- (x + 2)(x – 10)
- (x – 2)(x + 10)
- (x + 2)(x + 10)

Save & Next

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Question No. 25

The equation $-2x^2 + 13x - 15 = 0$ has

- two irrational roots
- one repeated root
- two nonreal complex roots
- two rational roots

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Question No. 12

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

Question No. 25

Simplify the expression: $13 + 8 \div 2(8 - 2^2)$

- 29
- 3
- 33
- 27

Save & Next

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Factor $4m^2 - 12m + 9$

- $(2m + 3)^2$
- $(2m - 7)(2m - 9)$
- $(2m - 3)^2$
- $(2m - 3)(2m + 3)$

Save & Next

Question No. 11

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

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

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

Question No. 22

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- (x + 1)(x – 20)
- (x + 2)(x – 10)
- (x – 2)(x + 10)
- (x + 2)(x + 10)

Save & Next

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Question No. 13

Which one of the following equations is a contradiction?

- $3(5x-3)=15x+19$
- $-2(x+8)+3x=x-16$
- $5x-4=11$
- $x^2-4=0$

Save & Next

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

Question No. 10

Solve: $2x^2 = x - 4$

- $\{\frac{1}{4}(1 \pm i\sqrt{31})\}$
- $\{\frac{1}{3}(1 \pm i\sqrt{31})\}$
- $\{\frac{1}{3}(-1 \pm i\sqrt{31})\}$
- $\{\frac{1}{4}(-1 \pm i\sqrt{31})\}$

Save & Next

Total questions in exam: 25 | Answered:

Question No. 24

The solution set of $(x+5)^2+10=5$ is

- $\{-5\pm\sqrt{5}\}$
- $\{5\pm\sqrt{5}\}$
- $\{\pm5\sqrt{5}\}$
- no real solutions

Save & Next

The quotient $\frac{2}{-i}$ can be written as

- -1
- 2i
- 1
- -2i

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Total questions in exam: **25** | Answered: **10**

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Solving the equation $x^2 + ax - 1 = x$, for x, gives

- $\left\{\frac{a-1\pm\sqrt{a^2-2a-3}}{2}\right\}$
- $\left\{\frac{1-a\pm\sqrt{a^2-2a+5}}{2}\right\}$
- $\left\{\frac{1-a\pm\sqrt{a^2-2a-3}}{2}\right\}$
- $\left\{\frac{a-1\pm\sqrt{a^2-2a+5}}{2}\right\}$

Save &

Simplify $\frac{3m^{\frac{2}{3}} - 4m^{\frac{1}{3}}}{m^{\frac{-1}{3}}}$

- $3m^{\frac{1}{3}} - 4m^{\frac{2}{3}}$
- $3m - 4m^{\frac{2}{3}}$
- $3m - 4m^{\frac{1}{3}}$
- $3m^2 - 4m$

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

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

Question No. 11

If A is any set then $A \cup \emptyset$ is equal to

- $\emptyset$
- 1
- A
- -1

Save & Next

Question No. 13

Which one of the following equations is a contradiction?

- $3(5x-3)=15x+19$
- $-2(x+8)+3x=x-16$
- $5x-4=11$
- $x^2-4=0$

Save & Next

Question No. 14

Perform the indicated operation $\frac{(2a^{-1}b^2c^{-2})^2}{(3^{-1}b)(2^{-1}ac^{-2})^3}$

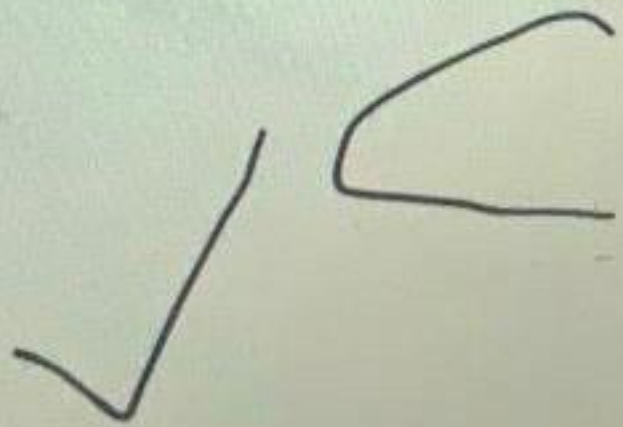
- $\frac{24b^3c^2}{a^5}$
- $\frac{96b^3c^2}{a^5}$
- $\frac{96bc^2}{a^5}$
- $\frac{24bc^2}{a^5}$

Save & Next

Question No. 9

Let $x \in \mathbb{R}$ and $x > 4$. Simplify the expression $\sqrt{x - 4\sqrt{x} + 4}$

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



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Total questions in exam: 25 | Answered: 24

Question No. 21

Find this quotient $\frac{x^2-15x+56}{x^2-6x-7} \div \frac{x+3}{x^2-9}$

- $\frac{(x+3)(x+4)}{3}$
- $\frac{(x-8)(x-3)}{x+1}$
- $4(x+1)$
- $\frac{6x}{x+2}$

Save & Next

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Question No. 25

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

- $x = \frac{b-a}{3b+5a}$
- $x = -4a$
- $x = 4a$
- $x = \frac{2a}{4b}$

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

Question No. 20

Select the correct property that describes the given equation. $x + (y + 3) = x + (3 + y)$

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

Save & Next

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Total questions in exam 25 | Answered 9

Question No. 1

The equation $9x^2 - 6x = -1$ has

- two nonreal complex roots
- two rational roots
- two irrational roots
- one repeated root

Save & Next

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$$x^2 + ax - 1 = x$$

$$x^2 + ax - x - 1 = 0$$

$$x^2 + (a-1)x - 1 = 0$$

$$a = 1,\quad b = a-1,\quad c = -1$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(a-1) \pm \sqrt{(a-1)^2 - 4(1)(-1)}}{2.1}$$

$$= \frac{-a+1 \pm \sqrt{a^2 - 2a + 1 + 4}}{2.1}$$

$$= \frac{a-1 \pm \sqrt{a^2 - 2a + 5}}{2}$$

Question No. 6

A⁻ A

The solution set of the equation $8x^3 = a^3$, for x, is

- $\{\frac{a}{2}, -\frac{a}{8} + \frac{a\sqrt{3}}{8}i, -\frac{a}{8} - \frac{a\sqrt{3}}{8}i\}$
- ϕ
- $\{\frac{a}{2}, -\frac{a}{4} + \frac{a\sqrt{3}}{4}i, -\frac{a}{4} - \frac{a\sqrt{3}}{4}i\}$
- $\{\frac{a}{2}\}$

Question No. 12

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

- {2}
- 2
- {2, -2}
- ∅

Save & Next

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. 25

The solution set of $z^2 + i^2 = 0$ is

- $S = \{-i\}$
- $S = \{+i\}$
- $S = \{-i, +i\}$
- $S = \{-1, +1\}$

Question No. 25

The equation $-2x^2 + 13x - 15 = 0$ has

- two irrational roots
- one repeated root
- two nonreal complex roots
- two rational roots

estion No. 8

actor the polynomial $x^4 + 5x^3 - 36$ completely

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

$(x + 2)(x^3 + 9)$

$(x - 2)(x + 2)(x^2 + 9)$

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

Question No. 14

Perform the indicated operation $\frac{(2a^{-1}b^2c^{-2})^2}{(3^{-1}b)(2^{-1}ac^{-2})^3}$

- $\frac{24b^3c^2}{a^5}$
- $\frac{96b^3c^2}{a^5}$
- $\frac{96bc^2}{a^5}$
- $\frac{24bc^2}{a^5}$

Save & Next

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$$(-)(i)^{-33}$$

$$(-)(-i)$$

$$= i$$

$$-i = \boxed{?}$$

Total questions in exam: 25 | Answered: 0

Question No. 6

Determine the following union $\emptyset \cup \{1,2\} =$

- $\{1,2,\phi\}$
- $\{1,2\}$
- $\{1\}$
- $\emptyset$

Factor completely $49a^2b - b^3$

- $b(7a + b)(7a - b)$
- $(7a + b^2)(7a - b)$
- Prime, doesn't factor
- $b(7a - b)^2$

Simplify: $\sqrt[8]{(x-7)^8}$

- $|x-7|$
- $(x-7)$
- $|x-7|^8$
- $(7-x)$

Question No. 12

Using set notation, write the elements belonging to
{x | x is a natural odd number between 2 and 14}.

- {3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13}.
- {3, 5, 7, 9, 11, 13}.
- {1, 3, 5, 7, 9, 11, 13}.
- {4, 6, 8, 10, 12}.

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Math_Quiz1_Sem2_202

Total questions in exam: 25 | Answered: 3

Question No. 2

Solve the equation $27x^3 - 64 = 0$

- $\left\{\frac{-2+2i\sqrt{3}}{3}, \frac{2-2i\sqrt{3}}{3}, \frac{4}{3}\right\}$
- $\left\{\frac{-2+2i\sqrt{3}}{3}, -\frac{2+2i\sqrt{3}}{3}, \frac{4}{3}\right\}$
- $\left\{\frac{2+2i\sqrt{3}}{3}, \frac{2-2i\sqrt{3}}{3}, -\frac{4}{3}\right\}$
- $\left\{\frac{-2+2i\sqrt{3}}{3}, -\frac{2+2i\sqrt{3}}{3}\right\}$

Save & Next

Question No. 8

Factor $4m^2 - 12m + 9$

- $(2m + 3)^2$
- $(2m - 7)(2m - 9)$
- $(2m - 3)^2$
- $(2m - 3)(2m + 3)$

Save & Next

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Total questions in exam: 25 | Answered: 24

Question No. 21

Find this quotient $\frac{x^2-15x+56}{x^2-6x-7} \div \frac{x+3}{x^2-9}$

- $\frac{(x+3)(x+4)}{3}$
- $\frac{(x-8)(x-3)}{x+1}$
- $4(x+1)$
- $\frac{6x}{x+2}$

Save & Next

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Question No. 25

Compute $\left(ab^{\frac{1}{2}} + 1\right)\left(a^{\frac{1}{2}}b^{\frac{1}{2}} - 2\right)$

- $a^{3/2}b + a^{1/2}b^{1/2} + 2ab^{1/2} - 2$
- $a^{3/2}b + a^{1/2}b^{1/2} + 2a^{1/2}b - 2$
- $a^{3/2}b + a^{1/2}b^{1/2} - 2a^{1/2}b - 2$
- $a^{3/2}b + a^{1/2}b^{1/2} - 2ab^{1/2} - 2$

Question No. 1

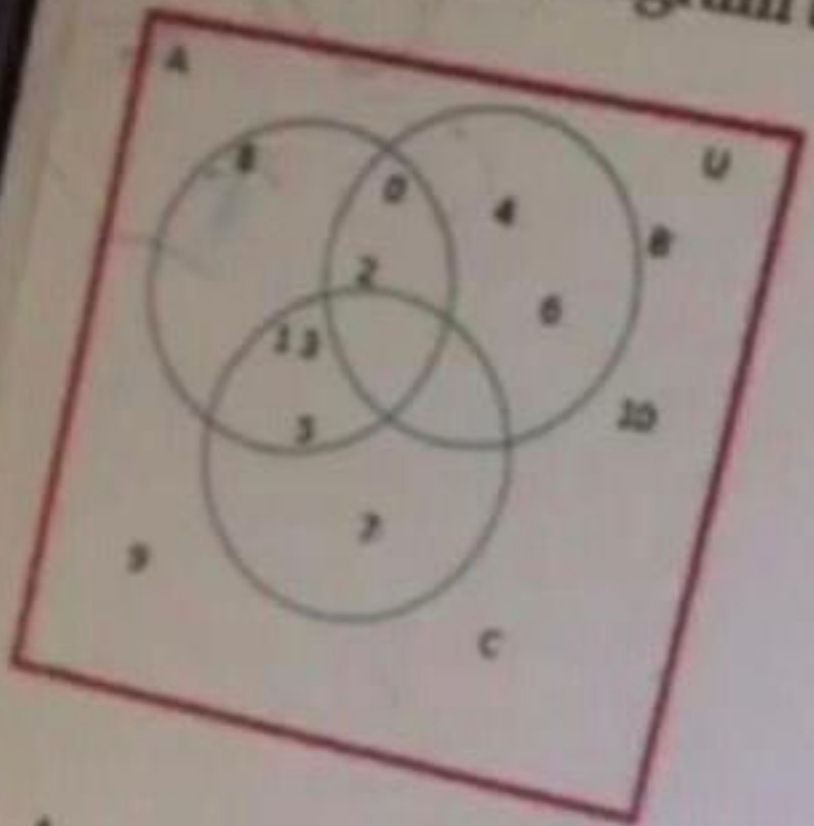
Perform this division $(6m^2+13m-15)\div(m+3)$

- $6m-5$
- $6m-5+\frac{4}{m-3}$
- $m-5$
- $6m+5$

Which of the following is not a polynomial?

- $2x^3 - 7x^2 + 5x - 2$
- $x^5 + 5x^2 - x^{-1} + 1$
- $x^5 - x^3 + x^2 - x - \frac{-}{5}$
- $x^5 + 5x^3 - x + \sqrt{2}$

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. 12

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

- {2}
- 2
- {2, -2}
- ∅

Save & Next

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Total questions in exam: 25 | Answered: 5

Question No. 2

What are the factors of $x^2 - 5x - 6$?

- $(x-3)(x-2)$
- $(x+3)(x-2)$
- $(x-6)(x+1)$
- $(x+6)(x-1)$

& Next

Question No. 6

A⁻ A A⁺

The solution set of the equation $8x^3 = a^3$, for x, is

- $\{\frac{a}{2}, -\frac{a}{8} + \frac{a\sqrt{3}}{8}i, -\frac{a}{8} - \frac{a\sqrt{3}}{8}i\}$
- ϕ
- $\{\frac{a}{2}, -\frac{a}{4} + \frac{a\sqrt{3}}{4}i, -\frac{a}{4} - \frac{a\sqrt{3}}{4}i\}$
- $\{\frac{a}{2}\}$

Save & Next

Question No. 18

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

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

$a > 0$ distance between a and $-a$

$-2a$

$-4a$

$2a$

$4a$

Total questions in exam: 25 | Answered: 1

Question No. 7

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

- $(y^2 - 4)(y^2 - 9)$
- $(y^2 + 4)(y^2 + 9)$
- $(y^2 - 6)^2$
- $(y-2)(y-3)(y+3)(y+2)$

Save & Next

Perform the indicated operation $(5x-11y)(2x-7y)$

- $10x^2-57xy-77y^2$
- $5x^2-57xy+77y^2$
- $10x^2-13xy+77y^2$
- $10x^2-57xy+77y^2$

Save & Next

Question No. 5

The equation $2x^2 - x + c = -1$ has two non-real complex solutions for x, if

- $c < -\frac{1}{8}$
- $c > -\frac{1}{8}$
- c is any real number
- $c > -\frac{1}{8}$

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

Question No. 1

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

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

Question No. 2

Use set notation, and write the elements belonging to the
{x | x is a natural number less than 1}

- Ø
- {Ø}
- {1}
- {0}

Total questions in exam: **25** | Answered: 3

Question No. 12

Perform this operation and express the answer in the simplest form.

$$\frac{3m+1}{m-4} - \frac{m+9}{m-4}$$

- $\frac{2m+10}{m-4}$
- $\frac{4m+10}{m-4}$
- 2
- $\frac{4m-8}{m-4}$

If the equation $ax^2 - 6x + 9 = 0$ has one doubled (repeated) solution, then

- a = -36
- a = 36
- a = -1
- a = 1

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Total questions in exam: 25 | Answered: 3

Question No. 4

Which expression is a polynomial?

- $\sqrt{11}$
- $x^{-2} - 1$
- $\sqrt{x} + x$
- $\frac{1}{x} + x$

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Total questions in exam: 25 | Answered: 0

Question No. 2

Simplify $\frac{a^{\frac{4}{3}} \times b^{\frac{2}{3}}}{(ab)^{\frac{1}{3}}}$

- $a\,(ab)^{\frac{2}{3}}$
- $a \cdot b^{\frac{1}{3}}$
- $(ab)^{\frac{2}{3}}$
- $a\,(a^2b)^{\frac{1}{3}}$

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

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

Question No. 3

A⁻ A A⁺

The elements from $A = \{-8, -2, 0.5, \frac{10}{5}, \sqrt{25}, \sqrt{10}, \pi, 7\}$ that belong to the set of rational numbers are

- $\{-8, -2, 0.5, \frac{10}{5}, \sqrt{25}, \pi, 7\}$
- $\{-8, -2, 0.5, \frac{10}{5}, \sqrt{25}\}$
- $\{-8, -2, 0.5, \frac{10}{5}, \sqrt{25}, 7\}$
- $\{-8, -2, 0.5, \frac{10}{5}, \sqrt{25}, \sqrt{10}, 7\}$

Question No. 7

Simplify and write in the standard form of a complex number

$$\sqrt{-36}+\sqrt{25}$$

- $i\sqrt{11}$
- $5-6i$
- $5-36i$
- $5+6i$

Question No. 8

The solution set of $4x^2 + 16x = 0$ is

- {4, 0}
- {4, 1}
- {−4, 0}
- {−4, 1}

Total questions in exam: 25 | Answered: 7

Question No. 7

A⁻ A A⁺

Simplify and write in the standard form of a complex number

$$\sqrt{-36}+\sqrt{25}$$

- $i\sqrt{11}$
- $5-6i$
- $5-36i$
- $5+6i$

Question No. 2

Simplifying the power of i^{1235} gives

- -3i
- 3+i
- 1235
- -i

Question No. 8

The solution set of $4x^2 + 16x = 0$ is

- (4, 0)
- (4, 1)
- (−4, 0)
- (−4, 1)

Save & Next

Question No. 9

Find this quotient $\frac{4m}{m^2-18m+80} \div \frac{9m^2+90m}{m^2-18m+80}$

- $2(m+1)$
- $\frac{6m^2}{m+3}$
- $\frac{5m}{m+4}$
- $\frac{4}{9(m+10)}$

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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

Save & Next

Question No. 9

Find this quotient $\frac{4m}{m^2-18m+80} \div \frac{9m^2+90m}{m^2-18m+80}$

- $2(m+1)$
- $\frac{6m^2}{m+3}$
- $\frac{5m}{m+4}$
- $\frac{4}{9(m+10)}$

Save & Next

Question No. 19

Perform the indicated operation $[(x-2y)+7][(x-2y)-7]$

- $x^2-2xy+4y^2-49$
- $x^2+4xy+4y^2-49$
- $x^2-4xy+4y^2-49$
- $x^2-4xy-4y^2-49$

Question No. 24

Determine the following union $\emptyset \cup \{1,2\} =$

- $\{1,2,\phi\}$
- $\{1\}$
- $\emptyset$
- $\{1,2\}$

Question No. 11

Compute $\left(\frac{a^{8/5}b^{2/3}}{a^{3/5}b^{8/3}}\right)^{3/4}\left(\frac{a^{1/2}b^{3/2}}{a^{3/4}b}\right)^{3}$

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

If one solution of $x^2 - 3x + c = 0$ is 2, then

- c = -3
- c = 2
- c = -2
- c = 0

Perform the indicated operations and Simplify.

$$\frac{2y^2-16y}{6y^2+7y-3}\cdot\frac{2y^2+11y+12}{y^2-9y+8}$$

- $\frac{2y(y+4)}{(3y-1)(y-1)}$
- $\frac{2y(y+4)}{(3y+1)(y-1)}$
- $\frac{2y(y-8)}{(3y-1)(y-1)}$
- $\frac{2y(y+4)}{(3y-1)(y+1)}$

Total questions in exam: 25 | Answered: 7

Question No. 7

A⁻ A A⁺

Simplify and write in the standard form of a complex number

$$\sqrt{-36}+\sqrt{25}$$

- $i\sqrt{11}$
- $5-6i$
- $5-36i$
- $5+6i$