

Question No. 5

Let $A = \{-6, -12, -5, -\sqrt{3}, 0, 2\pi, 3, \sqrt{12}\}$. The subset of all rational numbers of A is

- $\{-6, -12, -5, 0, 3\}$
- $\{-\sqrt{3}, 2\pi, \sqrt{12}\}$
- $\{-6, -12, -5, -\sqrt{3}, 0, 3\}$
- $\{-6, 0, 3\}$

1

Simplify $\frac{x^{-1} + y^{-1}}{1 - x^{-1}}$

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

$\frac{x+y}{y(x-1)}$

$\frac{x+y}{x-1}$

$\frac{x+y}{xy-1}$

C

INSTRUCTION: **تعليمات** Please choose the BEST answer from the given options for each question.

Question:

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

Options:

- 5
- 2
- 4
- 3

A

Question No. 2

Let set defined, and write the elements belonging to the set
(if x is a natural number less than 1)

{0}

{0}

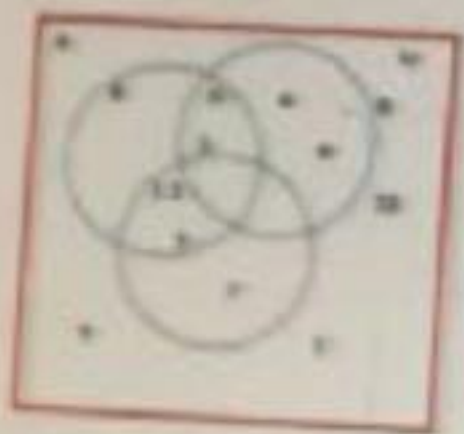
{1}

\emptyset

B

Question No. 1

Use the Venn diagram to determine $A \cup B$



- $A \cup B = \{4, 6, 8\}$
- $A \cup B = \{0, 1, 2, 3, 4, 5, 6, 8\}$
- $A \cup B = \{0, 2\}$
- $A \cup B = \{1, 3, 4, 5, 6, 8\}$

C

Question No. 9

Let $A = \{-6, -12, -5, -\sqrt{3}, 0, 2\pi, 3, \sqrt{12}\}$. The subset of all rational numbers of A is

- $\{-6, -12, -5, 0, 3\}$
- $\{-\sqrt{3}, 2\pi, \sqrt{12}\}$
- $\{-6, -12, -5, -\sqrt{3}, 0, 3\}$
- $\{-6, 0, 3\}$

A

Question No. 25

The solution set of $-27x = x^3 - 12x^2$ is

- {0, 3, -9}
- {0, 3, 9}
- {3, 9}
- {-3, -9}

B

Question No. 19

Solving the equation $2AP - 3rt = 5Prt$ for P gives

$P = \frac{3rt}{2A - 5rt}$

$P = \frac{2A - 5Prt}{3rt}$

$P = \frac{2A}{rt}$

$P = \frac{2A - 3P}{rt}$

A

Question No. 8

Which expression is a polynomial?

$\sqrt{11}$

$\sqrt{x} + x$

$x^{-2} - 1$

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

A

Question No. 15

Simplify

$$\frac{(a+1)^{-1} - (a-1)^{-1}}{(a^2-1)^{-1}}$$

2a

2

-2

-2a

C

Question No. 12

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

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

A

Exercise No. 1

Perform the indicated operations $(4x^2 - 3y)(4x^2 + 3y)$

$$= 16x^4 - 28x^2y + 9y^2$$

$$= 16x^4 + 9y^2$$

$$= 16x^4 - 28x^2y - 9y^2$$

$$= 16x^4 - 9y^2$$

D

Question No. 16

Simplify $\left(\frac{x^2 y^{1/3}}{z^{1/9}}\right)^3 \left(\frac{x^{-1/2} z^{1/4}}{y^{1/2}}\right)^2$

$\frac{1}{x^5 y^{2/3} z^{1/6}}$

$x^5 y^{2/3} z^{1/6}$

$x^5 z^{1/6}$

$\frac{1}{x^5 z^{1/6}}$

C

Question No. 11

Factor $25x^2 - 30x + 9$

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

$(25x - 3)(x - 3)$

$(5x + 1)(5x + 9)$

$(5x - 3)^2$

D

Question No. 4

Select the correct property that describes the given equation.

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

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

C

Question No. 13

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

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

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

B

Question No. 3

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

A

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

Write the expression in lowest term $\frac{(a-b)^2}{a^2-b^2}$

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

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

$a+b$

$a-b$

A

Question No. 11

Factor $12x^2 + 7x - 12$

$(3x + 1)(4x - 12)$

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

$(12x + 4)(x - 3)$

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

D

Question No. 1

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

- 1
- \emptyset
- 1
- A

B

Question No. 13

Find this quotient $\frac{a^2 - b^2}{2a - 2b} \div \frac{a + b}{8}$

- $\frac{a + b}{16}$
- 4
- $\frac{a + b}{8}$
- $\frac{(a - b)}{16}$

B

Question No. 12
Factor: $(3u + 5)^2 - 18(3u + 5) + 81$

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

B

Question No. 14

Perform the operations: $\frac{5x+7}{5a^2x} - \frac{3x-2}{5a^2x}$

$\frac{8x+7}{5a^2x}$

$\frac{2x+9}{5a^2x}$

$\frac{2x+5}{5a^2x}$

$\frac{8x+5}{5a^2x}$

B



Question No. 5

Math

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

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

B

Question No. 12

Factor the following polynomial : $4tx^3 + ytz - 4zt - tyx^3$

- $(x^3 - z)(4 - y)$
- $t(x^3 - z)(4 + y)$
- $t(x^3 - z)(4 - y)$
- $(tx^3 + z)(4t + yt)$

C

Question No. 3

Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 3, 5, 7\}$, and $B = \{3, 4, 6\}$. Find $(A \cap B)'$

- (4, 5, 6, 7)
- (1, 2, 4, 5, 6, 7)
- (1, 2, 3, 4)
- (2, 4, 6, 7)

B

Question No. 4

Select the equation that illustrates the distributive property.

$4 \times 1 = 4$

$4 \times (6 + 7) = 4 \times 6 + 4 \times 7$

$4 + 6 = 6 + 4$

$4 + (6 + 7) = (4 + 6) + 7$

B

Question No. 17

The solution set of an identity equation is

- the set of some numbers that satisfy the equation.
- the set of real numbers.
- the set of natural numbers.
- the empty set.

B

Question No. 23

What are the factors of this quadratic equation? $8x^2 - 6x - 5 = 0$

- $(4x - 5)(2x + 1)$
- $(8x + 5)(x - 1)$
- $(x + 1)(8x - 5)$
- $(4x - 1)(2x + 5)$

A

Question No. 9

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

- $2m^2 + m + 2$
- $2m^2 + 2m - 2 + \frac{6}{3m + 2}$
- $2m^2 - m + 2$
- $2m^2 + m - 2 + \frac{6}{3m + 2}$

B

Question No. 17

Solve $(7x+2) - 4 = 8(x-9)$

$x = -70$

$x = -78$

$x = -7$

$x = 70$

D

Question No. 18

The equation $x-1=0$ is a

D

- quadratic equation
- cubic equation
- none of these answers
- linear equation



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Question No. 16

Simplify

$$\left(\frac{x^2 y^{1/3}}{z^{1/9}} \right)^3 \left(\frac{x^{-1/2} z^{1/4}}{y^{1/2}} \right)^2$$

$$\frac{1}{x^5 z^{1/6}}$$

$$x^5 z^{1/6}$$

$$x^5 y^{2/3} z^{1/6}$$

$$\frac{1}{x^5 y^{2/3} z^{1/6}}$$

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Select the correct property that describes the given equation.

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

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

Question No. 3

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

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

Question No. 2

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

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

$u + 2$

$$(bca)^3 (cab)^5 =$$

$$A \cap \emptyset = \emptyset$$

$$A \cup \emptyset = A$$

$$U' = \emptyset$$

$$(c + 2)^2 \cancel{\emptyset} = 16 \text{ is } \left. \vphantom{\emptyset} \right\} U$$

INSTRUCTION: **تعليمات** Please choose the BEST answer from the given options for each question.

Question:

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

Options:

- 5
- 2
- 4
- 3

Question no. 3

Let $U = \{-2, -1, 2, 3\}$, $A = \{-1, 2, 4\}$ and $B = \{-2, -1, 3\}$. Then $A \cap B$ is...

- [3]
- $\{-2, 3\}$
- $\{-2, -1, 3\}$
- \emptyset

Question No. 2

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

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

Question No. 2

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

• $(2x - 5)(x + 1)$

• $(x + 5)(2x - 1)$

• $(2x + 1)(x + 5)$

• $(2x + 5)(x - 1)$

Question No. 19

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

- $\mathbb{R} \setminus \left(3, \frac{-3}{2}\right)$
- $\mathbb{R} \setminus \{-3\}$
- $\mathbb{R} \setminus \left[-3, \frac{3}{2}\right)$
- $\mathbb{R} \setminus \{-3, 3\}$

Question No. 5

Let $A = \{-6, -12, -5, -\sqrt{3}, 0, 2\pi, \pi, \sqrt{12}\}$. The subset of all rational numbers of A is

- $\{-6, -12, -5, 0, \pi\}$
- $\{-\sqrt{3}, 2\pi, \sqrt{12}\}$
- $\{-6, -12, -5, -\sqrt{3}, 0, \pi\}$
- $\{-6, 0, \pi\}$

Question No. 25

The solution set of $-27x = x^3 - 12x^2$ is

- {0, 3, -9}
- {0, 3, 9}
- {3, 9}
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Question No. 19

Solving the equation $2AP - 3rt = 5Prt$ for P gives

- $P = \frac{3rt}{2A - 5rt}$
- $P = \frac{2A - 5Prt}{3rt}$
- $P = \frac{2A}{rt}$
- $P = \frac{2A - 3P}{rt}$

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Question No. 8

Which expression is a polynomial?

$\sqrt{11}$

$\sqrt{x} + x$

$x^{-2} - 1$

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

Question No. 15

Simplify

$$\frac{(a+1)^{-1} - (a-1)^{-1}}{(a^2-1)^{-1}}$$

- 2a
- 2
- 2
- 2a

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. 7

Perform the indicated operation $(4x^2 - 3y)(4x^2 + 3y)$

$16x^4 - 24x^2y + 9y^2$

$16x^4 + 9y^2$

$16x^4 - 24x^2y - 9y^2$

$16x^4 - 9y^2$

Question No. 16

Simplify $\left(\frac{x^2 y^{1/3}}{z^{1/9}}\right)^3 \left(\frac{x^{-1/2} z^{1/4}}{y^{1/2}}\right)^2$

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

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Question No. 11

Factor $25x^2 - 30x + 9$

- $(5x + 3)(5x - 3)$
- $(25x - 3)(x - 3)$
- $(5x + 1)(5x + 9)$
- $(5x - 3)^2$

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Question No. 4

Select the correct property that describes the given equation.

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

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

Question No. 13

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

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

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

Question No. 2

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

- {0}
- {∅}
- {1}
- ∅

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Question No. 3

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

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

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Question No. 1

Use the Venn diagram to determine $A \cup B$



- $A \cup B = \{4, 6, 8\}$
- $A \cup B = \{0, 1, 2, 3, 4, 5, 6, 8\}$
- $A \cup B = \{0, 2\}$
- $A \cup B = \{1, 3, 4, 5, 6, 9\}$

Question No. 23

What are the factors of this quadratic equation? $8x^2 - 6x - 5 = 0$

- $(4x - 5)(2x + 1)$
- $(8x + 5)(x - 1)$
- $(x + 1)(8x - 5)$
- $(4x - 1)(2x + 5)$

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Question No. 11

Factor $12x^2 + 7x - 12$

- $(3x + 1)(4x - 12)$
- $(3x - 4)(4x + 3)$
- $(12x + 4)(x - 3)$
- $(3x + 4)(4x - 3)$

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Question No. 21

The value of $\frac{\sqrt{-40}}{\sqrt{-4}}$ is

- 10
- $\sqrt{10} i$
- $-\frac{10 i}{\sqrt{10}}$
- $\sqrt{10} i$

Question No. 13

Find this quotient $\frac{a^2 - b^2}{2a - 2b} \div \frac{a + b}{8}$

- $\frac{a + b}{16}$
- 4
- $\frac{a + b}{8}$
- $\frac{(a - b)}{16}$

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Simplify $\frac{x^{-1}+y^{-1}}{1-x^{-1}}$

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

$\frac{x+y}{y(x-1)}$

$\frac{x+y}{x-1}$

$\frac{x+y}{xy-1}$



Question No. 12

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

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

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Question No. 2

Let $U = \{1, 2, 3, 4, 5\}$, $A = \{1, 2, 4\}$ and $B = \{1, 2, 3, 5\}$. Then $A \cap B =$

- (A)
- (B)
- (C)
- (D)

Question No. 14

Perform the operations: $\frac{5x+7}{5a^2x} - \frac{3x-2}{5a^2x}$

- $\frac{8x+7}{5a^2x}$
- $\frac{2x+9}{5a^2x}$
- $\frac{2x+5}{5a^2x}$
- $\frac{8x+5}{5a^2x}$

Question No. 16

Simplify

$$\left(\frac{x^2 y^{1/3}}{z^{1/9}} \right)^3 \left(\frac{x^{-1/2} z^{1/4}}{y^{1/2}} \right)^2$$

$\frac{1}{x^5 z^{1/6}}$

$x^5 z^{1/6}$

$x^5 y^{2/3} z^{1/6}$

$\frac{1}{x^5 y^{2/3} z^{1/6}}$

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

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

Question No. 1

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

- 1
- \emptyset
- 1
- A

Question No. 5

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

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

Question No. 12

Factor the following polynomial : $4tx^3 + ytz - 4zt - tyx^3$

- $(x^3 - z)(4 - y)$
- $t(x^3 - z)(4 + y)$
- $t(x^3 - z)(4 - y)$
- $(tx^3 + z)(4t + yt)$

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Question No. 3

Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 3, 5, 7\}$, and $B = \{3, 4, 6\}$. Find $(A \cap B)'$

- (4, 5, 6, 7)
- (1, 2, 4, 5, 6, 7)
- (1, 2, 3, 4)
- (3, 4, 6, 7)

Question No. 12

Factor the following polynomial : $4tx^3 + ytz - 4zt - tyx^3$

- $t(x^3 - z)(4 + y)$
- $(x^3 - z)(4 - y)$
- $(tx^3 + z)(4t + yt)$
- $t(x^3 - z)(4 - y)$

Question No. 4

Select the equation that illustrates the distributive property.

- $4 \times 1 = 4$
- $4 \times (6 + 7) = 4 \times 6 + 4 \times 7$
- $4 + 6 = 6 + 4$
- $4 + (6 + 7) = (4 + 6) + 7$

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Question No. 12

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

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

$\frac{3}{4p}$

$\frac{12p^3-12p^2}{9p^2-9p}$

$\frac{4p}{3}$

Question No. 3

Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 3, 5, 7\}$, and $B = \{3, 4, 6\}$. Find $(A \cap B)'$

- {4, 5, 6, 7}
- {1, 2, 4, 5, 6, 7}
- {3, 4, 6, 7}
- {1, 2, 3, 4}

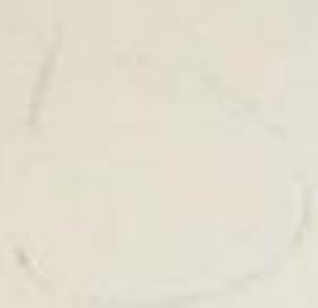
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Question No. 2

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

- {0}
- {∅}
- {1}
- ∅



Question No. 4

Select the correct property that describes the given equation.

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

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

Question No. 17

The solution set of an identity equation is:

- the set of some numbers that satisfy the equation.
- the set of real numbers.
- the set of natural numbers.
- the empty set.



Question No. 3

Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 3, 5, 7\}$, and $B = \{3, 4, 6\}$. Find $(A \cap B)'$

- (4, 5, 6, 7)
- (1, 2, 4, 5, 6, 7)
- (1, 2, 3, 4)
- (3, 4, 6, 7)

Question No. 9

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

- $2m^2 + m + 2$
- $2m^2 + 2m - 2 + \frac{6}{3m + 2}$
- $2m^2 - m + 2$
- $2m^2 + m - 2 + \frac{6}{3m + 2}$

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Question No. 23

What are the factors of this quadratic equation? $8x^2 - 6x - 5 = 0$

- (4x - 5)(2x + 1)
- (8x + 5)(x - 1)
- (x + 1)(8x - 5)
- (4x - 1)(2x + 5)

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Question No. 18

The equation $x-1=0$ is a

- quadratic equation
- cubic equation
- none of these answers
- linear equation

Write the expression in lowest term $\frac{(a-b)^2}{a^2-b^2}$

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

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Question No. 17

Solve $(7x+2) - 4 = 8(x-9)$

- $x = -70$
- $x = -78$
- $x = -7$
- $x = 70$

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Question No. 13

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

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

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

$2m^2 + 2m - 2 + \frac{6}{3m+2}$

$2m^2 + m + 2$

$2m^2 - m + 2$

$2m^2 + m - 2 + \frac{6}{3m+2}$

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Question No. 5

Simplify: $\frac{x^4 - 1}{(x^2 + 1)(x - 1)}$

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



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Simplify $\frac{x^{-1}+y^{-1}}{1-x^{-1}}$

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

$\frac{x+y}{y(x-1)}$

$\frac{x+y}{x-1}$

$\frac{x+y}{xy-1}$



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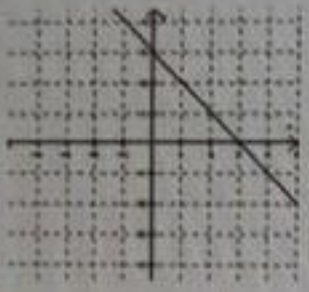


تحديث

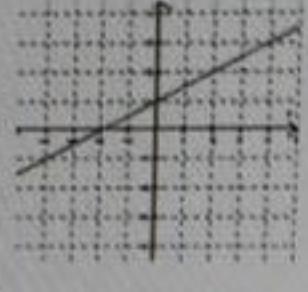
Question No. 9

Which line has a negative slope?

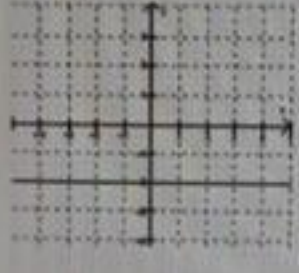
I



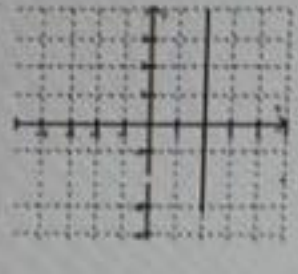
II



III



IV



- II
- I
- IV
- III

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HP Compaq LE1711



Question No. 29

Perform the indicated operation. $(7 - 3i) \div (5 - 2i)$

- $\frac{41}{29} - i$
- $1 - \frac{1}{29}i$
- $\frac{41}{29} - \frac{1}{29}i$
- $\frac{7}{5} + \frac{3}{2}i$

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Question No. 9

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

- $2m^2 + m - 2 + \frac{6}{3m+2}$
- $2m^2 + 2m - 2 + \frac{6}{3m+2}$
- $2m^2 + m + 2$
- $2m^2 - m + 2$

Question No. 6

The base of $5p^4$ is

- 5p
- 5
- p
- 4

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

- $(2x - 5)(x - 1)$
- $(x + 5)(2x - 1)$
- $(2x + 1)(x + 5)$
- $(2x + 5)(x - 1)$

$$11 + 8 \div 2(8 - 2^2) =$$

✓ 27 , 12 , 32 , 21

$$x + 1/x$$

polynomial of degree 1

polynomial of degree 3

polynomial of degree 2

not polynomial



$$i^{16} =$$



factor

$$16x^4 - 1$$



factor $x^6 + 125$



simplify $(3ab^{-2})^3 (3ab^{-3}/a^{-2})^{-2}$



في سؤال انو اذا كانت اكس ناتشورال نمبر اقل من الواحد

حيكون الجواب *فاي بدون اقواس*



simplify $(-16a^4/b^4)^{1/4}$

Real Number (الاعداد الحقيقية) جميع الاعداد

Rational number (اعداد نسبية)

↓ عبارة

① الاعداد التي تخرج من الجذر

$$\sqrt{16} = 4 \quad \sqrt{25} = 5$$

② الكسور: $\frac{4}{a} \text{ و } \frac{5}{a} \text{ و } \frac{11}{z}$

Irrational numbers (اعداد غير نسبية)

↓ كتابه عن

$$\frac{\pi}{4}, \pi, \sqrt{3}, \sqrt{2}, \sqrt{5}$$

← يعني التي بعد الفاصلة اعداد كثيرة غير متكررة
0, 254 327...

Natural اعداد طبيعية

↓

1, 2, 3, ...

Whole اعداد كلية

0, 1, 2, 3, ...

Integers اعداد صحيحة

-2, 0, 1, 2, ...

صفر و موجب و سالب





Question No. 22

The quotient of the division $\frac{x^3-7}{x-2}$ is:

- $x^2 + 2x + 3$
- $x^2 + 2x + 2$
- $x^2 + 2x + 4$
- $x^2 + 2x + 5$

Question No. 23

Use the quadratic formula to solve this equation:

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

$x = \frac{3 + \sqrt{39}}{8}$

$x = \frac{-3 + \sqrt{39}}{8}$

$x = \frac{3 + \sqrt{39}}{4}$

$x = \frac{3 + \sqrt{39}}{8}$

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Click on the question number to solve it.

- Q001 Q002 Q003 Q004 Q005 Q006 Q007 Q008 Q009 Q010 Q011 Q012 Q013 Q014 Q015

INSTRUCTION: **تعليمات** Please choose the BEST answer from the given options for each question.

Question:

The solution set of the equation $x^{\frac{3}{2}} = 8$ is

Options:

{8}

{-4}

{4}

{2}

Submit Answer



INSTRUCTION: **تعليمات** Please choose the BEST answer from the given options

Question:

The quotient of the division $\frac{x^2-1}{x-4}$ is:

Options:

- $x^2 + 4x + 13$
- $x^2 + 4x + 16$
- $x^2 + 4x + 15$
- $x^2 + 4x + 14$

تسليم الإجابة
Submit Answer

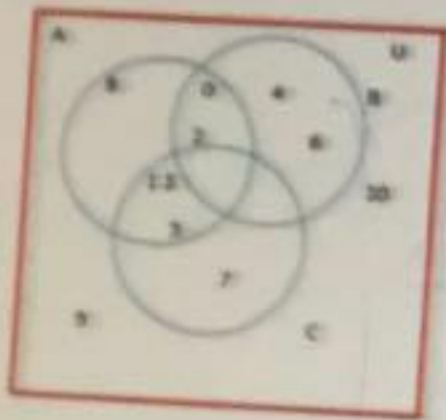


Question No. 19

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

- $\mathbb{R} \setminus (3, \frac{3}{2})$
- $\mathbb{R} \setminus \{-3\}$
- $\mathbb{R} \setminus \{-3, \frac{3}{2}\}$
- $\mathbb{R} \setminus \{-3, 3\}$

Question No. 1

Use the Venn diagram to determine $A \cup B$ 

- $A \cup B = \{4, 6, 8\}$
- $A \cup B = \{0, 1, 2, 3, 4, 5, 6, 8\}$
- $A \cup B = \{0, 2\}$
- $A \cup B = \{1, 3, 4, 5, 6, 8\}$

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Question No. 2

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

- {0}
- {∅}
- {1}
- ∅

BAO

D

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Question No. 3

Let $W = \{-2, -1, 1, 2, 3, 4\}$, $A = \{-1, 2, 4\}$ and $B = \{-2, -1, 3\}$. Then $A \cap B =$

- (3)
- $\{-2, 3\}$
- $\{-2, -1, 3\}$
- \emptyset

Save & Next

Question No. 3

Let $U = \{-2, -1, 1, 2, 3, 4\}$, $A = \{-1, 2, 4\}$ and $B = \{-2, -1, 3\}$, then $A \cap B =$

- [3]
- [-2, 3]
- [-2, -1, 3]
- \emptyset

Save & Next

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

- $(2x - 5)(x - 1)$
- $(x + 5)(2x - 1)$
- $(2x + 1)(x + 5)$
- $(2x + 5)(x - 1)$

Question No. 4

Select the correct property that describes the given equation.

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

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

Question No. 5

Let $A = \{-6, -12, -5, -\sqrt{3}, 0, 2\pi, 3, \sqrt{12}\}$. The subset of all rational numbers of A is

- $\{-6, -12, -5, 0, 3\}$
- $\{-\sqrt{3}, 2\pi, \sqrt{12}\}$
- $\{-6, -12, -5, -\sqrt{3}, 0, 3\}$
- $\{-6, 0, 3\}$

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Question No. 14

Simplify the expression by rationalizing the denominator $\frac{6}{1+\sqrt{11}}$

- $6-2\sqrt{11}$
- $12+4\sqrt{11}$
- $6-2\sqrt{11}$
- $12-4\sqrt{11}$

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Question No. 6

The base of $-5p^4$ is

- 5p
- 5
- p
- 4

Save & Next حفظ والتالي

Question No. 7

Perform the indicated operation $(4x^2 - 3y)(4x^2 + 3y)$

- $16x^4 - 24x^2y + 9y^2$
- $16x^4 + 9y^2$
- $16x^4 - 24x^2y - 9y^2$
- $16x^4 - 9y^2$

Question No. 17

The solution set of an identity equation is

- the set of some numbers that satisfy the equation.
- the set of real numbers.
- the set of natural numbers.
- the empty set.

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

• $2m^2 + 2m - 2 + \frac{6}{3m + 2}$

• $2m^2 + m + 2$

• $2m^2 - m + 2$

• $2m^2 + m - 2 + \frac{6}{3m + 2}$

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Question No. 11

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

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

Save & Next حفظ و التالي

The degree of the polynomial $2x^2(x^2 - 3x + 2)$ is

- 1
- 4
- 2
- 3

BAOP

D

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Question No. 12

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

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

$\frac{3}{4p}$

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

$\frac{4p}{3}$

BAOP

B

Save & Next حفظ و التالي

$$\left(\frac{a}{b^2}\right)^{-3} = \frac{b^{-2}}{a^{-3}}$$

$$\frac{a^{-3}}{b^{-6}} = \frac{b^{-2}}{a^{-3}}$$

$$\frac{b^6}{a^3} \xrightarrow{a^3} \frac{a^3}{b^2}$$

$$\frac{b^8 - a^8}{a^3 b^2} = \frac{(b^4 - a^2)(b^4 + a^2)}{a^3 b^2}$$

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

Question No. 13

Simplify $\frac{x^2 - 6x + 9}{x^2 - 9}$

- $\frac{x-3}{x-9}$
- $\frac{x+3}{x-3}$
- $\frac{x-6}{x-9}$
- $\frac{x-3}{x+3}$

BAOP

10

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Question No. 15

Simplify

$$\frac{(a+1)^{-1} - (a-1)^{-1}}{(a^2-1)^{-1}}$$

- 2a
- 2
- 2
- 2a

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

$$= \frac{2p^2(6p-6)}{p(9p-9)}$$

$$= \frac{12p^3 - 12p^2}{9p^2 - 9p}$$

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

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

Simplify $\frac{x^{-1} + y^{-1}}{1 - x^{-1}}$

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

$\frac{x+y}{y(x-1)}$

$\frac{x+y}{x-1}$

$\frac{x+y}{xy-1}$

$$15 + x - 6x^2$$

$$6x^2 - 19x + 15$$

$-i - 33$

a) i

b) $-i$

c) -1

d) 1

$$\frac{x^3}{6x^3} = \frac{1}{6}$$

$$\frac{1}{3} \left(\frac{x^2 y^{\frac{1}{3}}}{z^{\frac{1}{3}}} \right)^3 \left(\frac{x^{\frac{1}{3}} z^{\frac{1}{4}}}{y^{\frac{1}{2}}} \right)^2$$

$$\left(\frac{x^6 y}{z} \right) \left(\frac{x^{\frac{2}{3}} z^{\frac{1}{2}}}{y^4} \right)$$

$$\frac{x^6 y^{\cancel{1}} x^{\frac{2}{3}} z^{\frac{1}{2}}}{z y} = \frac{x^{6+\frac{2}{3}}}{z^{\frac{1}{2}}} = \frac{x^{\frac{20}{3}}}{z^{\frac{1}{2}}}$$

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

$$1) \{1, 4\} \subseteq A$$

$$2) \{0, 1\} \notin A$$

$$3) \{2\} \in A$$

$$4) \{1\} \notin A$$

$$(x+3)^{-\frac{2}{5}} - (x+3)^{\frac{2}{5}}$$

$$\frac{P^{-1} - Q^{-1}}{(PQ)^{-1}}$$

Ⓐ $Q - P$

Ⓑ PQ

Ⓒ $P + Q$

Ⓓ $P - Q$

69

$$\overline{m+3} \overline{) 6m^2 + 13m - 15}$$

$-8m$ $+15$
 $5m$

$$18n \begin{matrix} 4/3 \\ \} \\ \end{matrix} = 12n \begin{matrix} 1/3 \\ \} \\ \end{matrix}$$

(a) $6n \frac{1}{3} (3n^2 - 2n)$

(b) $6n \frac{1}{3} (3n^2 - 2)$

(c) $6n \frac{4}{3} (3 - 2n)$

(d) $6n \frac{1}{3} (3n - 2)$

$A \cap \emptyset$

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

- $2m^2 + m + 2$
- $2m^2 - m + 2$
- $2m^2 + m - 2 + \frac{6}{3m + 2}$
- $2m^2 + 2m - 2 + \frac{6}{3m + 2}$

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$$\frac{x^2 - 2xy + y^2}{x+y} \div \frac{4x+4y}{2x+2x}$$

$$\frac{(x-y)}{4x} \quad \textcircled{-}$$

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

$$\frac{x+y}{x-y} \quad \textcircled{-}$$

$$x \quad \textcircled{-}$$

The quotient of $\frac{6m^3 + 7m^2 - 4m + 2}{3m + 2}$ is

- $2m^2 + m + 2$
- $2m^2 - m + 2$
- $2m^2 + m - 2 + \frac{6}{3m + 2}$
- $2m^2 + 2m - 2 + \frac{6}{3m + 2}$

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Question No. 8

The expression $y^3 - 1$ can be classified as a

- binomial
- none of these
- monomial
- trinomial

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جانی بالاختصار

$$(x+3)^{-\frac{2}{5}} - (x+3)^{\frac{2}{5}}$$

$$\frac{1}{(a+1)} - \frac{1}{(a-1)} \div \frac{1}{(a^2-1)}$$

$$\frac{(a-1) - (a+1)}{(a-1)(a-1)} \times \frac{(a-1)(a-1)}{1}$$

بالقسمة ↙

$$\frac{a-1-a-1}{(a-1)(a-1)} = \frac{-2}{(a-1)(a-1)}$$

$$2x^2 + 7x - 4$$

$$5x^2 + 20x$$

() ()

11

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

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

$$\left(\frac{x^2 y^{1/3}}{z^{1/3}} \right)^3$$

$$\left(\frac{x^{1/5} z^{1/4}}{y^{1/2}} \right)^2$$