

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

- x · y =
- 0 1 1 x=y6
- y · x -1
- 0 x 2 y 2

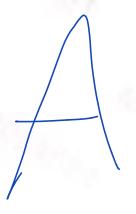


Determine the following union $\emptyset \cup \{1,2\} =$

- (1,2, φ)
- {1,2}
- 0 {1}
- o ø

The expression xyz can be classified as a

- monomial
- binomial
- trinomial
- onone of these



Simplifying the power of i1235 gives

- 0 -31
- 3+i
- 0 1235
- 0 -1

$$\frac{1235}{4} = 308.05 = -1$$

MH4054887

M144059

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

- 00
- 0 1
- {2,3}
- All real numbers

Total questions in exam: 25 | Answered: 0

Question No. 9

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

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

5 = X 25 0 50 ()

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

- 00
- {-2,3}
- 0 (3)
- [⊙] {-2,-1,3}

$$A' = \{-2, 1, 3\}$$

$$3 = \{2, -1, 3\}$$

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

- O 2xy
- 0 6
- 0.2
- 0 3

Total questions in exam: 25 | Answered: 3

Question No. 13

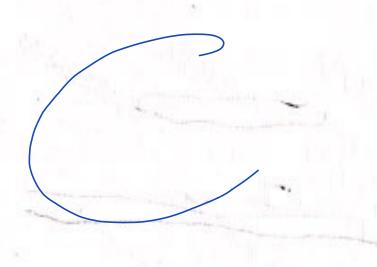
Which one of the following equations is not a linear equation?

$$x-1=0$$

$$\left(\frac{23}{4}\right)^2 x + 0.5(2x + 4) = -3x$$

$$3 x^3 - \frac{4}{3} x + 1 = 0$$

$$0.02 \text{ x} - 0.002 \text{x} = 0.50$$



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

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

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

- [○] R \ {-3, 3}
- R \ {-3}

$$X+3=0$$
 $X=-3$

$$2x - 3 = 6 \rightarrow 2x = 3$$

$$\left(\frac{3}{2}\right)$$

Total questions in exam: 25 | Answered: 0

Question No. 10

Dividing $-33x^8 - 9x^6 + 30x^4 - 21x^2$ by $-3x^2$ gives

$$0$$
 $11x^6 + 3x^4 - 11x^2 + 7$

$$011x^6 + 3x^4 - 11x^2 + 7x$$

$$11x^6 + 3x^4 - 10x^2 + 7$$

$$0$$
 $11x^6 + 3x^4 - 10x^2 - 7$

11x+3x4-10x2+7

 $-3x^{3} - 33x^{3} - 7x^{6} + 30x^{4} - 21x^{2}$ $-33x^{3} - 33x^{3} - 7x^{6} + 30x^{4} - 21x^{2}$

30x - 21x 3

-21 x 2

- 2x6 + 30x4 - 21x2

30x2-21x2

Scanned with CamScanner

Simplify the compound ratio

- 0 1
- $\frac{1}{y+3}$
- $\frac{4}{y+9}$
- $\frac{1}{y} + \frac{1}{3}$

Factor: 4x2-y2-6y-9

$$0$$
 $(2x-y+3)(2x+y-3)$

$$0$$
 $(4x - y - 3)(4x + y + 3)$

$$0$$
 $(2x-y-3)(2x+y+3)$

$$0$$
 $(4x - y + 3)(4x + y - 3)$

$$4x^{2} - (5^{2} + 6y + 9)$$

$$9x^{2}-(5+3)(5+3)$$

$$(1/x^{2} - (9+3)^{2})$$

$$(2 \times - (9+3)) (2 \times + (9+3))$$

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

$$(7+6x^3+8x^5-4x^4)+(-5x^4+2x^3-2+7x^5)$$

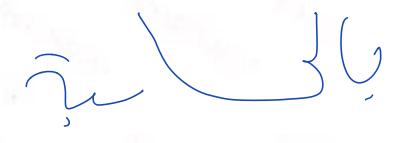
- $2x^{5}+2x^{4}+6x^{3}+3$
- $0 15x^5 9x^4 + 8x^3 + 5$
- 0 $15x^{10}-9x^8+8x^6+5$
- 14x²⁴+5

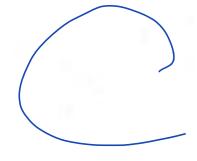
[Q ()

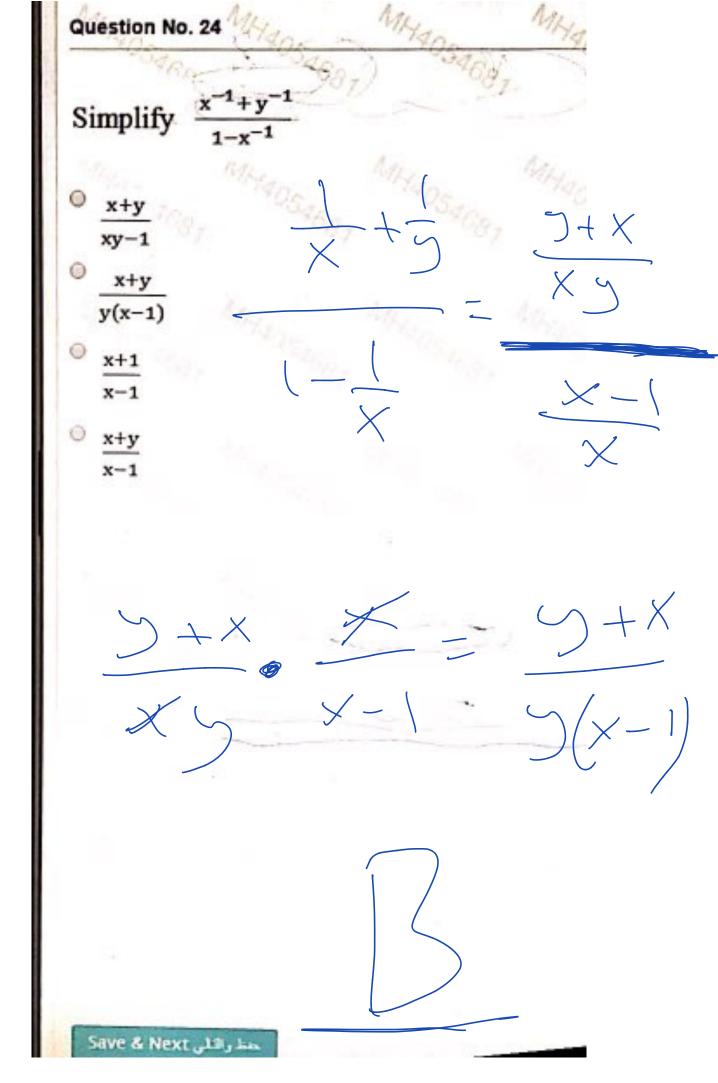
Write this expression as the product of a real number and i

$$\frac{3}{4}\sqrt{-80}$$

- 12i√5
- 6i√5
- 3i√5
- -6√5

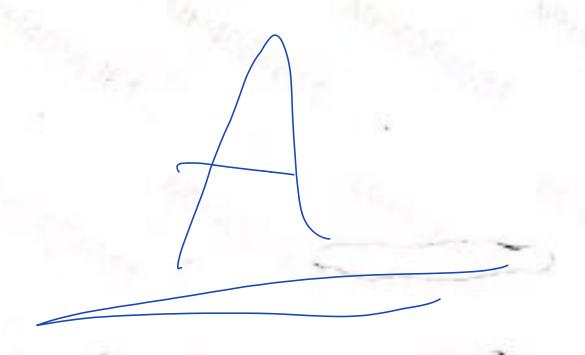






Select the correct property that describes the given equation. $(8 \times 12) \times 3 = 8 \times (12 \times 3)$

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



Solve
$$75 - \frac{x}{7} = \frac{x}{8}$$

- 1125
- 0 1125 56
- ° 280
- ° 5

The expression $\frac{8}{3x} + \frac{3}{4x} - \frac{7}{2x}$ is equal to

- 0 1
- 0 _1 6r
- 0 1 6r
- 0 -1

TLO (651 mg 5) X

Albidosaca,

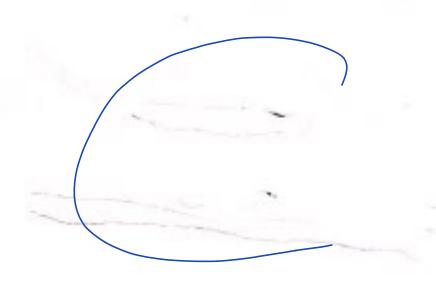
$$\frac{32}{12x} + \frac{9}{12x} = \frac{42}{12x} = \frac{32+9-42}{12x}$$

$$\left[-\frac{1}{12}\right]$$

ANHORSON,

Let U = {1, 2, 3, 4, 5, 6, 7}, and A = {1, 3, 5, 7} the complement of A is

- ⁰ {1, 2, 3, 4, 5, 6, 7}
- O
- ⁰ {2, 4, 6}
- ⁰ {1, 3, 5, 7}



Factor $-12x^2+27$

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

 $\frac{2}{3}\left(\frac{1}{4}\right) - \frac{1}{3}\left(\frac{1}{4}\right) - \frac{1}{4}\left(\frac{1}{4}\right) - \frac{1}{3}\left(\frac{1}{4}\right) - \frac{1}{3}\left(\frac{1}{4}\right) - \frac{1}{3}$

 $-3\left[\left(2\chi-3\right)\left(2\chi+7\right)\right]$

Save & Next 12, 14

uestion No. 19	Mygo.	MHADS
The expression $\frac{8}{3x} + \frac{3}{4x}$	$-\frac{7}{2r}$ is equa	l to
1 12r Agy	Mr.	Me
$\frac{1}{12\pi}$ $A_{1}A_{1}A_{2}O_{5}$	MH405	MH405
6z		
-1 12z Mysoc	MAYOR	MALO
-1 May My 108	MH405	1687 MH4054
	Egy Magne	

Question No. 16 MH40004687 Factoring $x^3 - y^3$ MH4059687 0 x3-y3 My $(x-y)(x^2-2xy+y^2)$ $(x+y)(x^2+xy+y^2)$ $(x-y)(x^2+xy+y^2)$

Save & Next منظر فقلي

Let $U = \{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$, $A = \{-2, 0, 2, 4, 6\}$, $B = \{0, 1, 2, 3, 4, 5, 6\}$ and $C = \{0, 1, 2, 3, 4, 5, 6\}$ and $C = \{0, 1, 2, 3, 4, 5, 6\}$.

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

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

- 03
- O 2xy
- 02
- 06



مطرقلی Save & Next

Simplify the expression. $\frac{\frac{x^2-3x+2}{x-4}}{x-2}$

- 0 x-1
- x-4
- x-4
- x-2
- x+1

> = X 65 60 gen (,

منذ رفالي Save & Next

Perform the indicated operation.

$$(7-3i) \div (5-2i)$$

- $\frac{41}{29} i$
- $\frac{7}{5} + \frac{3}{2}i$
- $\frac{41}{29} \frac{1}{29}i$
- $0 1 \frac{1}{29}i$

Qu ()

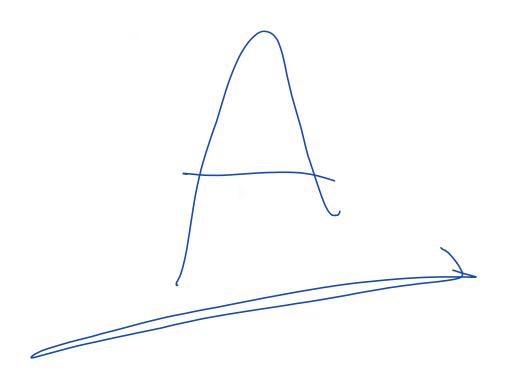
2

عندراتنان Save & Next

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

- [○] {1,4} ⊆ A
- 1 ∉ A
- [○] {0,1} ⊆ A
- {1} ∈ A

48



منارقان Save & Next

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

$$(tx^3 + z)(4t + yt)$$

$$t(x^3-z)(4-y)$$

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

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

$$(9+x^{2}+4y^{3})+(-9z+4y+z)$$

$$+x^{2}(9-y)-z+(9-y)$$

$$(9-y)(+x^{3}-z+)$$

$$(9-y)t(x^{3}-z)$$

The domain of $\frac{x}{x^2-5x-6}$ is

- [○] R \ {-1}
- R \ {6}
- $R \setminus \{-1,6\}$
- R \ {1,6}

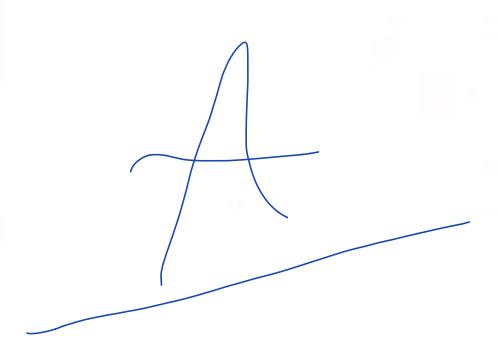
() (

Made-53-

مطرقال Save & Next

Factor
$$-12x^2 + 27$$

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



Save & Next of Police

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

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

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

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

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

$$2AP-314 = 9P14$$

$$-38+=501+-241$$

$$p(s/t-2A)=-3/t$$

$$\rho = \frac{-7/t}{56t - 2A} = \frac{+37t}{+(2A - 56t)}$$

$$=\frac{317}{2A-514}$$

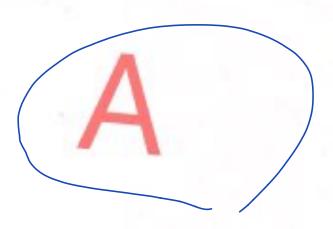
The intersection $\{4, 6, 8, 10, 12, 14\} \cap \{4, 5, 6, 10\}$ gives

- ⁰ {4, 6, 10}
- {4, 6, 8, 10, 12, 14}
- ø
- (4, 6, 8, 10)



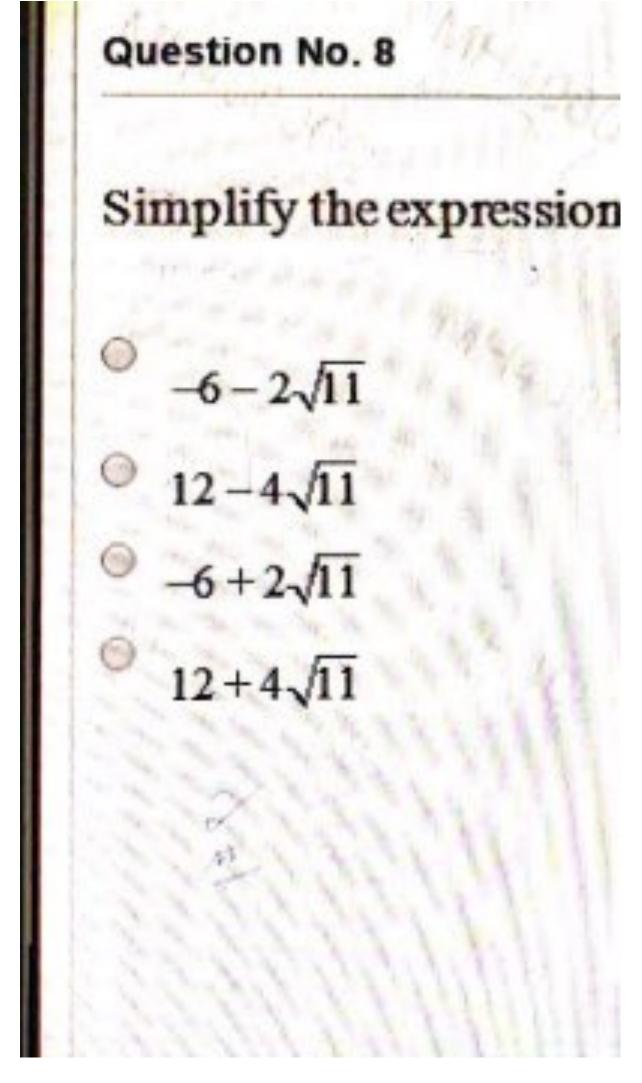
Determine the following intersection $\emptyset \cap \{6,7\} =$

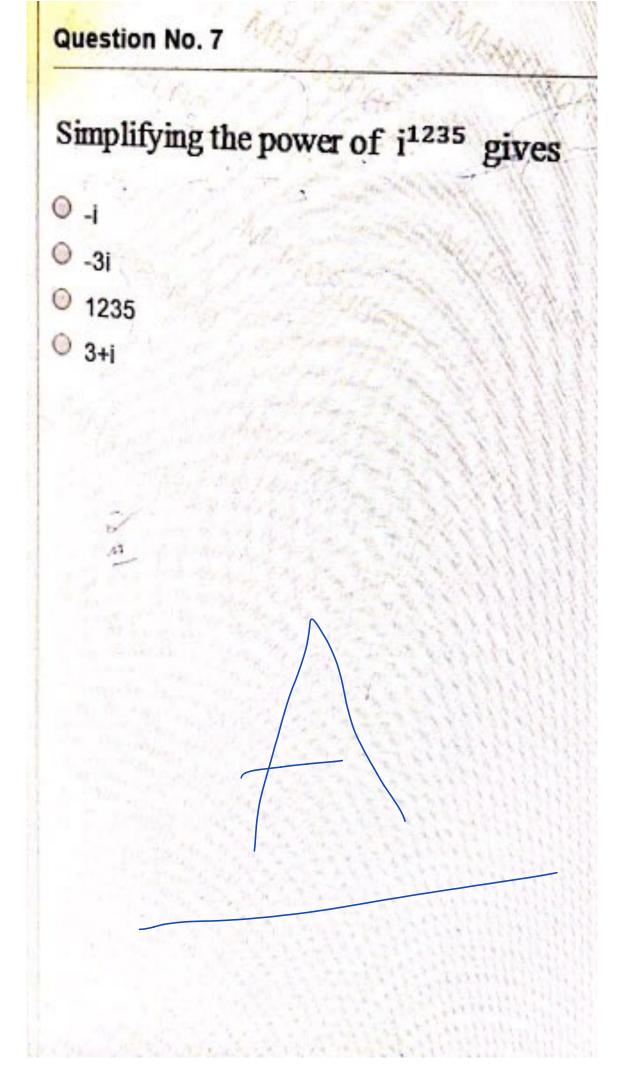
- 0 0
- 6,7}
- (7)
- ° {6}

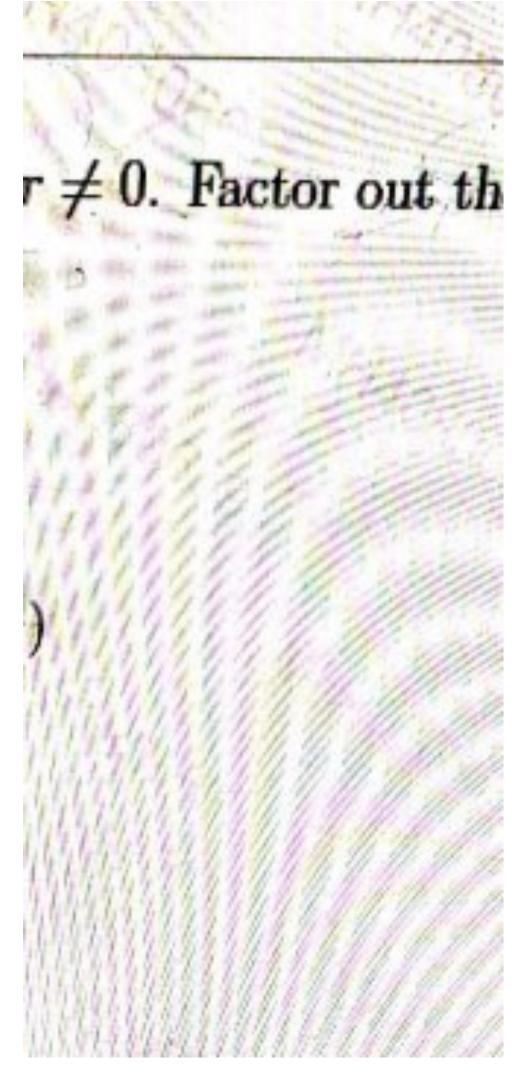


مند راشان Save & Next

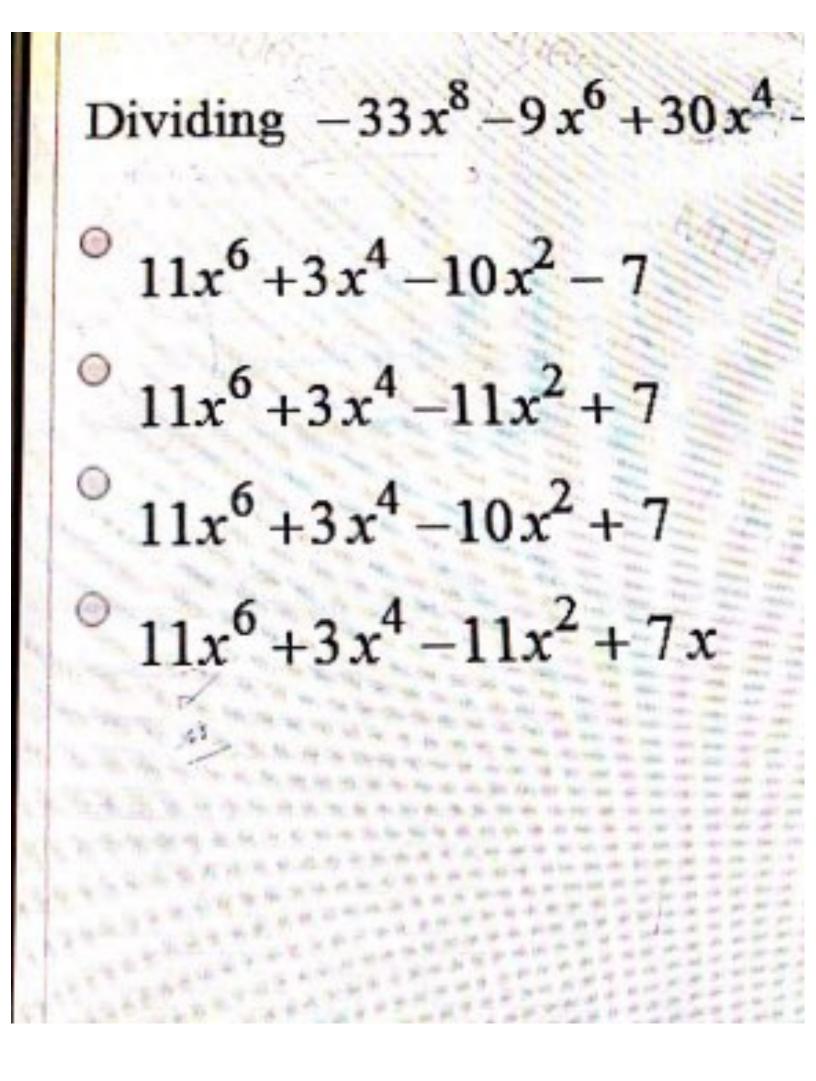
Question No. 9 The quotient $\frac{2}{-i}$ can be written as

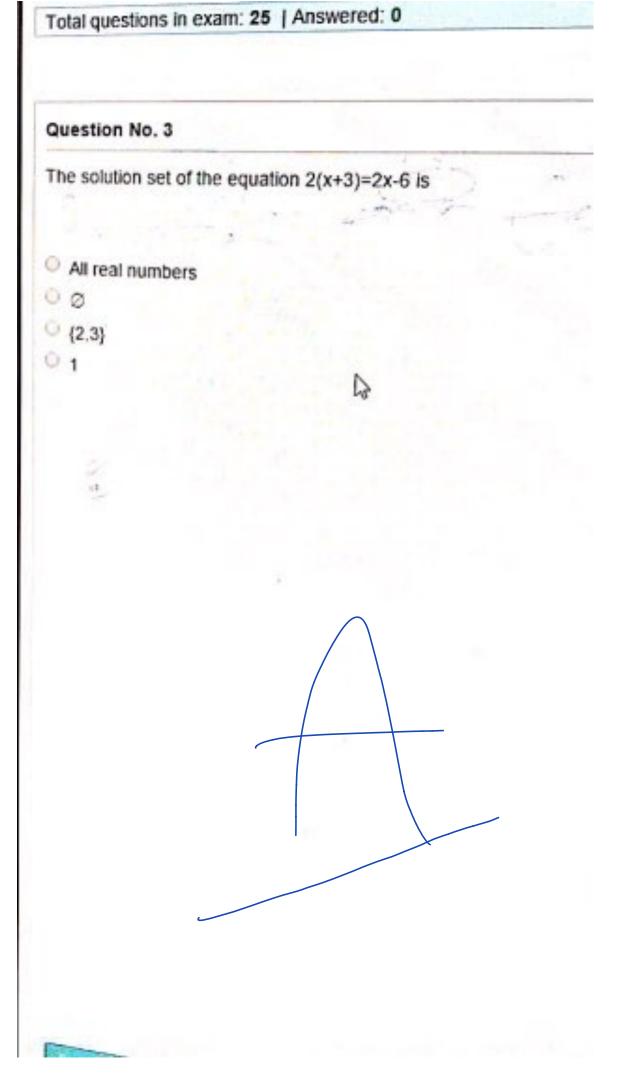






Simplify the complex fraction $\frac{x+3}{x}$ 0 -x + 7 $x^2 + 6x - 3$ -x - 7 $x^2 + 6x - 3$ $0 \quad \bigcirc x-7$ $x^2 + 6x - 3$ $\frac{x+7}{x^2+6x-3}$ ب کا کی لاف





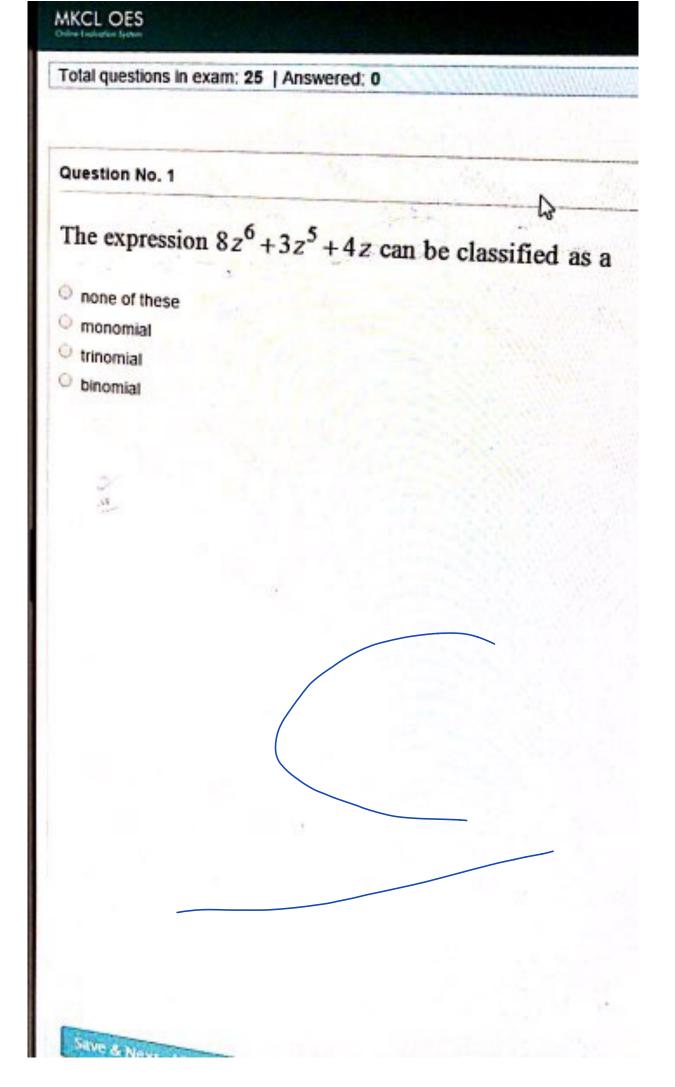
Simplify the expression, assuming that the variable can represe

$$-\left(\frac{8a^3}{27}\right)^{-\frac{4}{3}}$$

- 81
- $-\frac{16a^4}{81}$
- 16a⁴ 81

$$-\frac{81}{16a^4}$$

7 = - a 65 leg gerly



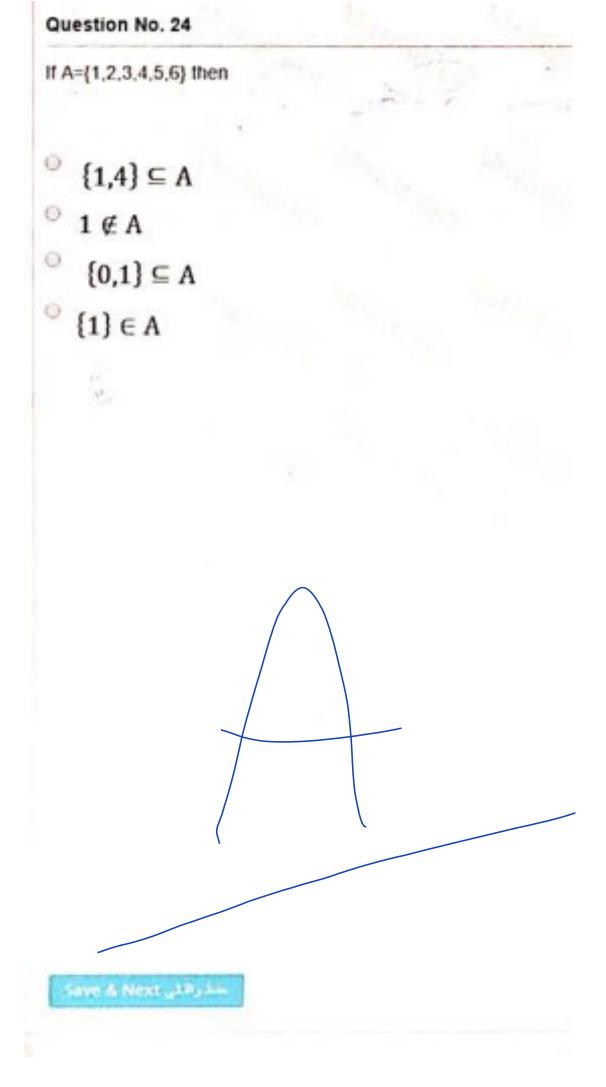
Perform the indicated operation.

$$(7-3i) \div (5-2i)$$

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

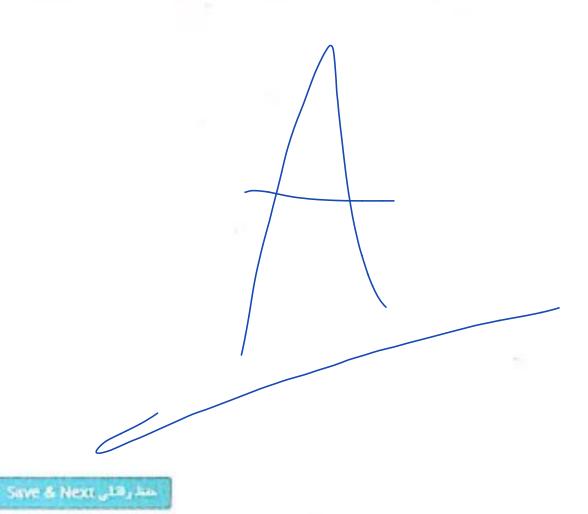
male ____

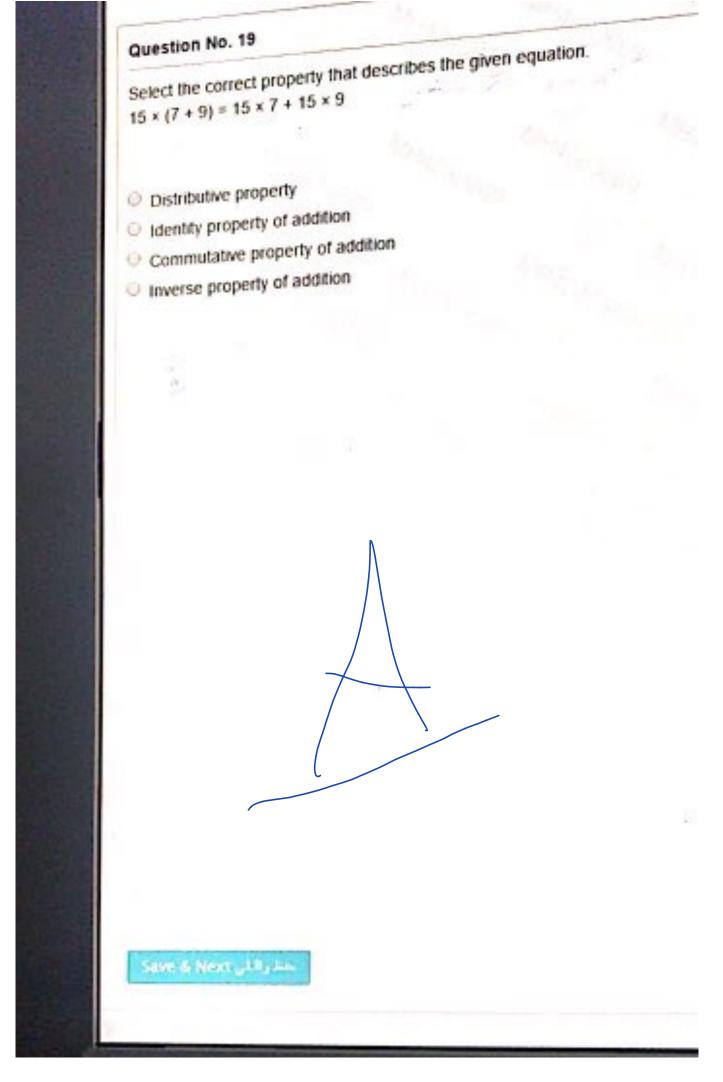
حذراتني Save & Next



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

- 03
- O 2xy
- 02
- 0 6





Factoring $x^3 - y^3$

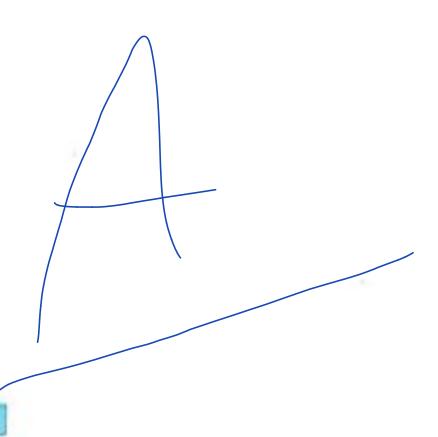
$$(x-y)(x^2+xy+y^2)$$

$$x^3 - y^3$$

$$(x+y)(x^2+xy+y^2)$$

$$(x-y)(x^2-2xy+y^2)$$

مطراقلی Save & Next



Total questions in exam: 25 /	Answered: 0
---------------------------------	-------------

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

- 24bc2
- 96bc²
- 24b3c2
- $\frac{96b^3c^2}{a^5}$

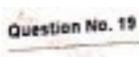
4 - 2 by - 4

 $(3^{-1}b)(2^{-3}a^3c^{-6})$

 $4(3)(8)a^{-2-3}b^{4-1}c^{-41--6}$

مطرقال Save & Next

 $= \frac{96b^3c^2}{66}$



writing - ±+√-120 in standard form of complex numbers gives

- 0 -1+i√2
- 0 -1- √2
- 0 -1+ √2
- 0-1-i√2

Molle-

Save & Next , All , Am

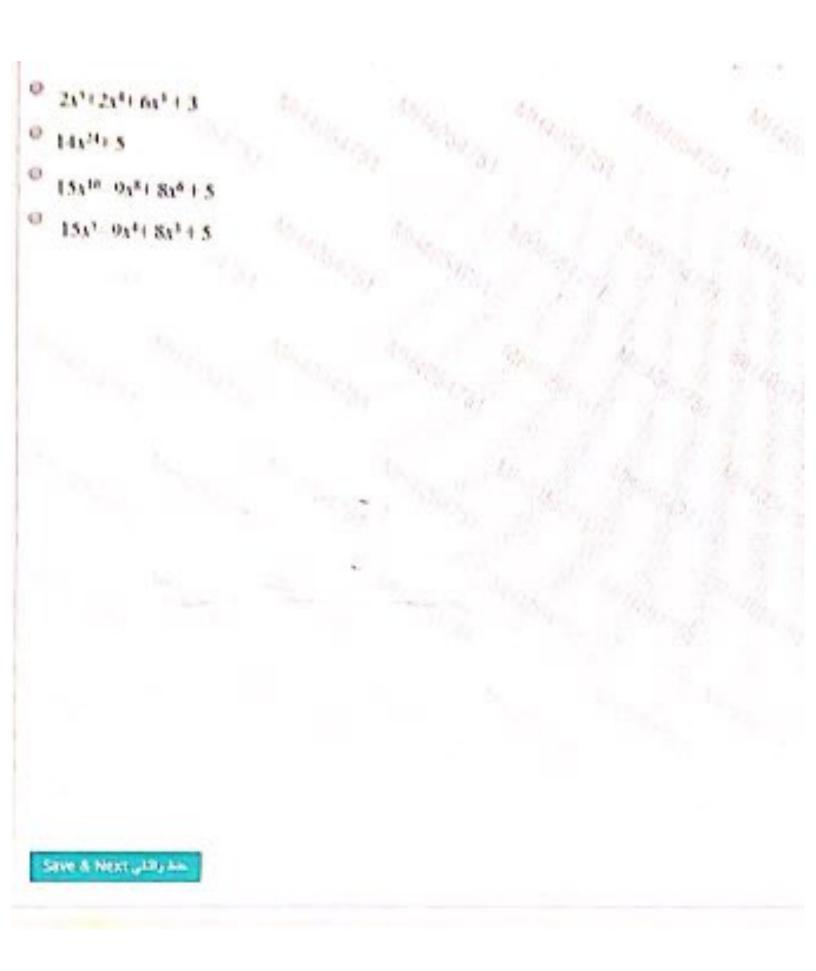
Using set notation, write the elements belonging to the set

 $\{x \mid x = n^3, n \text{ is a natural number less than or equal to } 4\}.$

- (1, 8, 27).
- 0 (1, 2, 3, 4)
- (1.2.3)
- (1, 8, 27, 64)



Save & Next utilization



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

- $0 \ x = 9, \ y = 3$
- $0 \ x = 6, \ y = 2$
- x = 2, y = 2
- x = 8, y = 2

enes! (-9) cer: (mes! enes! enes! enes! (-9) cer: (mes!

عطر اللي Save & Next

Find the sum $\frac{3}{2y} + \frac{5}{4y}$

- 0 11
- 0 11 4v2
- 0 22 4v
- 0 11 4v

45 49 - <u>11</u> 45 49

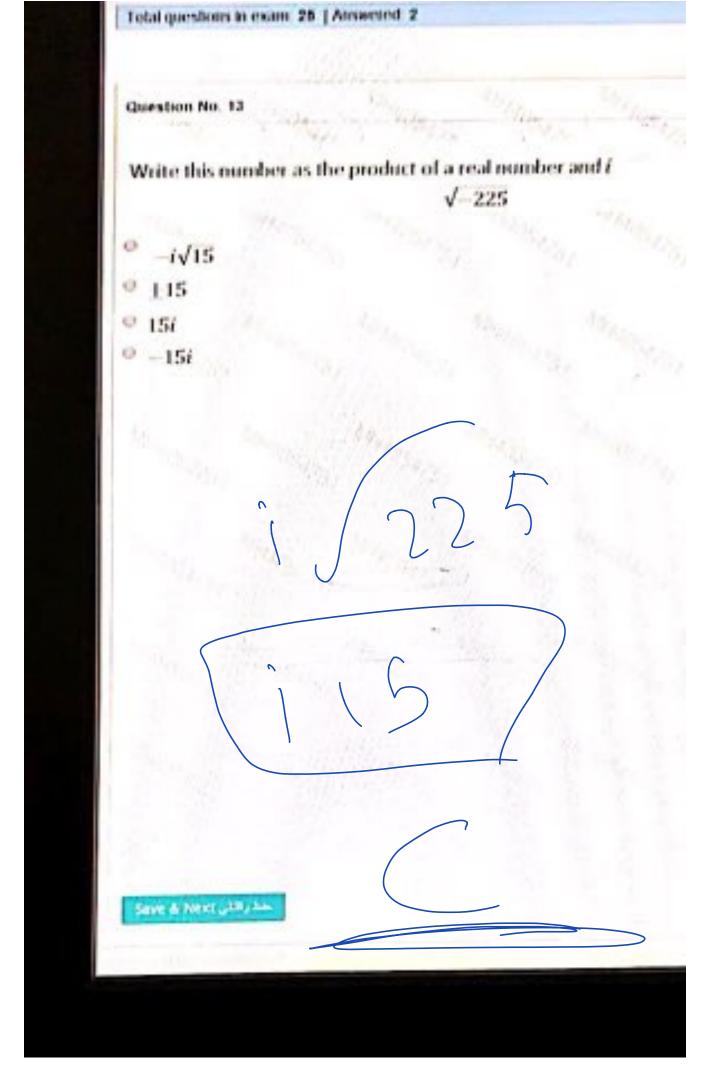
مدرهان Save & Next

Factor out the least power of the variable $18n^{4/3} - 12n^{1/3}$

- 6n³(3n-2)
- $6n^{\frac{1}{3}}(3n^2-2n)$
- $6n^{\frac{1}{3}}(3n^2-2)$
- 6n⁴/₃(3-2n)

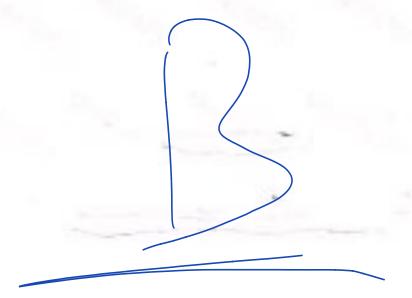
 $6n\frac{1}{3}(3n-2)$

منة رفان Save & Next



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

- (3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13).
- 0 (3, 5, 7, 9, 11, 13).
- (1, 3, 5, 7, 9, 11, 13).
- (4, 6, 8, 10, 12).



منظر اللي Save & Next

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

- · (=)
- € {-2/3}
- (³/₂)
- 0 {-3/2}



Save & Next منذ رقان

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

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

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

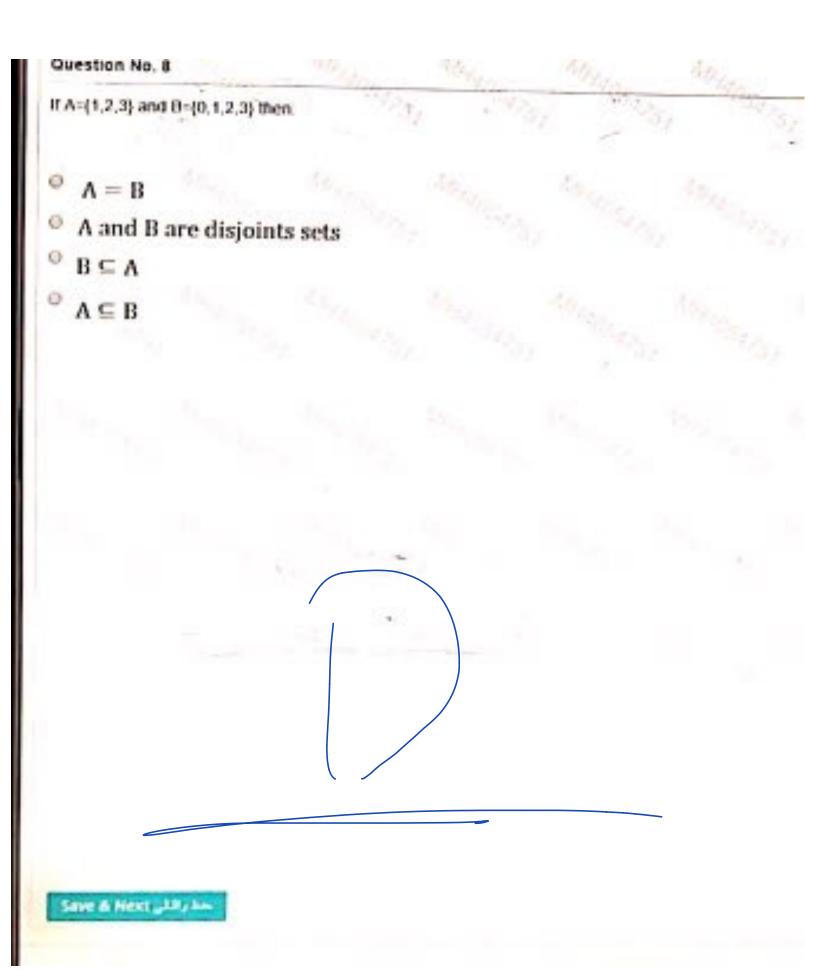
$$(y^2 - 6)^2$$

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

$$q^2 - 1$$
 $q + 36$

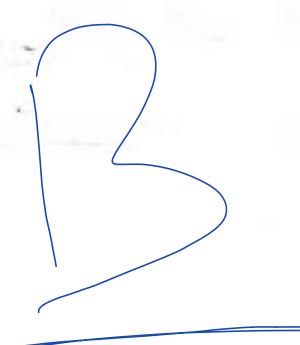
$$\left(3^{2}-4\right)\left(5^{2}-3\right)=$$

Save & Next منذر الله Save



Factoring x2 - y2

- 0 x2-y2
- $(x-y)(x^2+xy+y^2)$
- $(x+y)(x^2+xy+y^2)$
- $(x-y)(x^2-2xy+y^2)$



Save & Next , Jilly La.

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

- 0 <u>a</u> <u>a+b</u> 0 <u>-a</u> <u>a+b</u> 0 <u>a+b</u>
- a <u>−a+b</u> a

- C X
- (q > b)
- a (axb)

(a 25)2

 $\frac{1}{\left(\begin{array}{c} 1 \\ 1 \end{array} \right)}$

Save & Next , His his

When factored completely $25x^2y^3 + 10xy^2$ becomes

- $5xy^2(5xy + 2)$
- $5y^2(5x^2y + 2x)$
- 5xy2 (5xy+2xy2)
- 0 5(5x2y3 + 2xy2)

5x5(5xy+2)

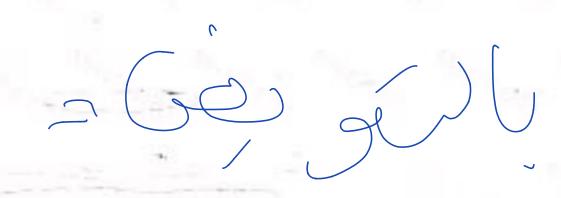
متطاع Save & Next

Question No. 1 Select the correct property that describes the given equation. 15 x (7 + 9) = 15 x 7 + 15 x 9 Identity property of addition Distributive property Commutative property of addition O Inverse property of addition

Save & Next , 131, his

Evaluate for x = -2, y = 5, and z = -3 the expression : $\frac{2(x-5)^2+4y}{z+4}$

- 0 118
- 0 -181
- 0 181
- 0 -118



مطرر فلتي Save & Next

