تجمیعات " ریفان و و**د** " دعواتکم <mark>یل ∨ ♥</mark> .

MATH

2020 الميد الأول Total questions il exam: 25 | Answered 4

Question No. 5

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

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

- 0 x . y2
- 0 x2y8
- 0 x1, y1
- 0 y . x 1

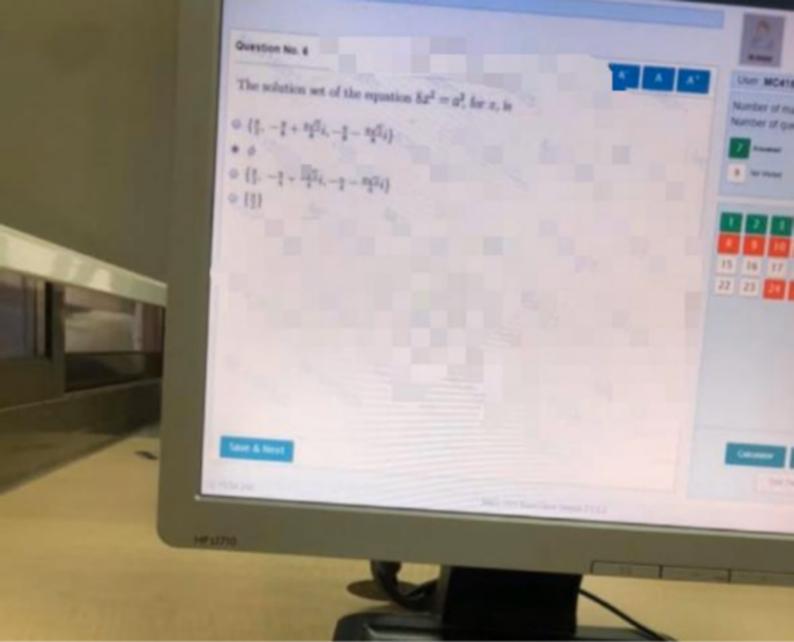
The solution set of $x^2-6x=-5$ is

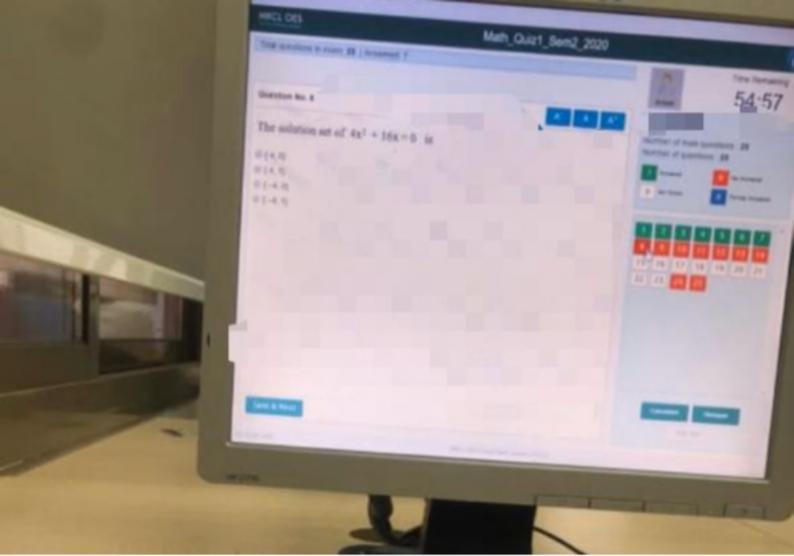
- 0 (-1,-5)
- 0 (1.-5)
- 0 (1.5)
- @ {-1,5}

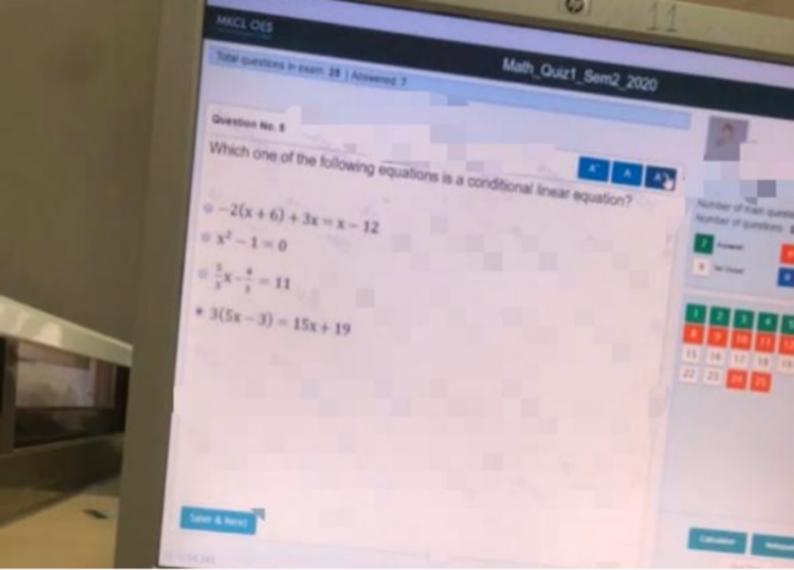
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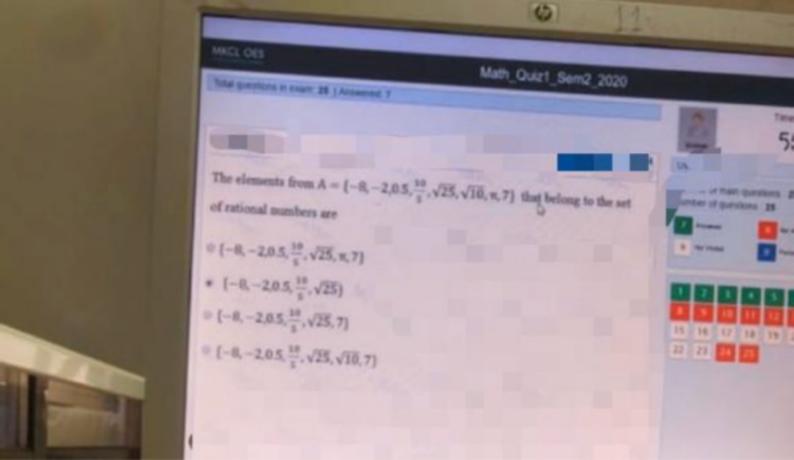
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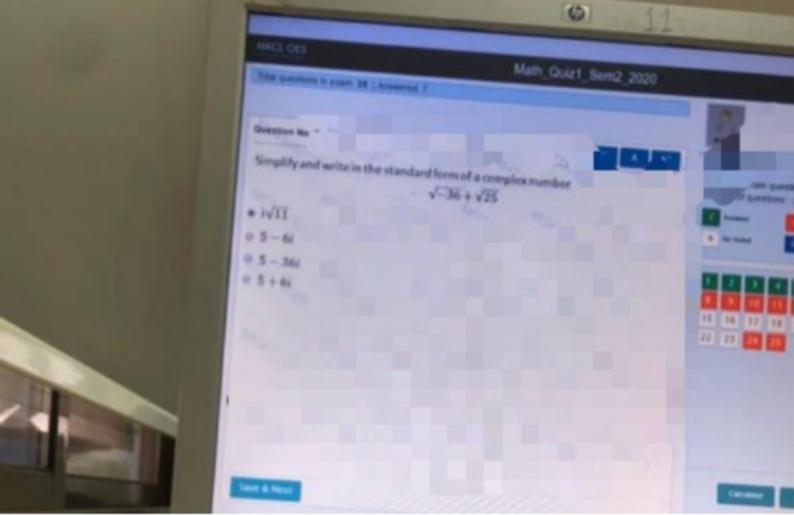
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Total questions in exam: 25 | Answered: 10

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

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

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

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

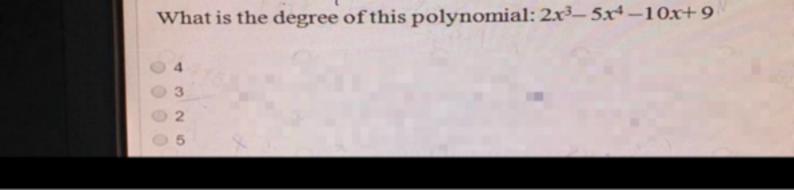
$$\left\{\frac{a-1\pm\sqrt{a^2-2a+5}}{2}\right\}$$

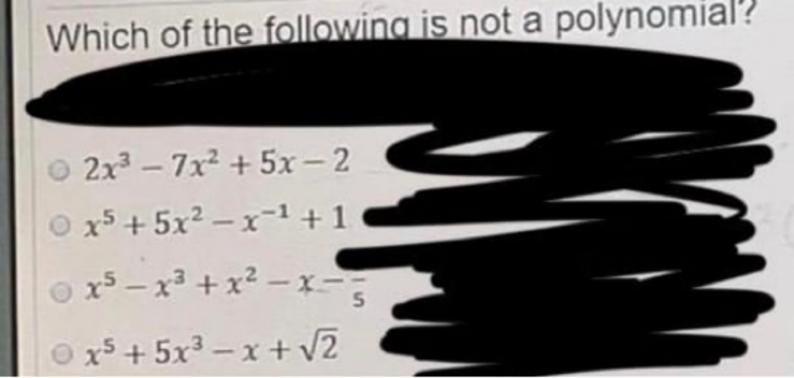
Total questions in exam 25 | Answered 9

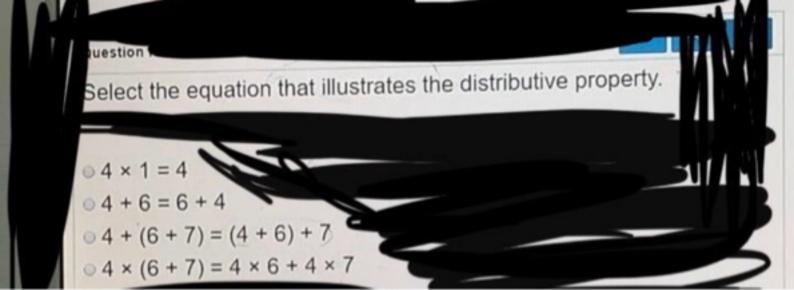
Question No. 1

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

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







Factor the following: $a^2 + ab - ac - eb$

$$a+b$$
 $(a+c)$

$$a - b(a - c)$$

$$a+b(a-c)$$

$$(a-b)(a+c)$$

Total questions is exam 25 | Answered 9

Question No. 1

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

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

Total questions in exam: 25 | Answered: 24

Question No. 21

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

$$0 \frac{(x+3)(x+4)}{3}$$

$$0 \frac{(x-0)(x-3)}{x+1}$$

$$04(x+1)$$

Find
$$\frac{1}{4y} + \frac{3}{2y} - \frac{2}{3y}$$

$$\frac{2}{12y}$$

$$\frac{2}{9y}$$

$$\frac{13}{12y}$$

$$\frac{11}{12y}$$

I questions in exam: 25 | Answered: 20

estion No. 25

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

Factor completely 49a2b-b3 0 b(7a+b)(7a-b) \circ $(7a+b^2)(7a-b)$ Prime, doesn't factor $b(7a-b)^2$

Total questions in exam: 25 | Answered: 24

Question No. 21

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

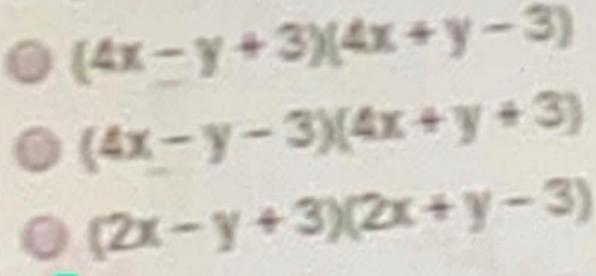
$$0 \frac{(x+3)(x+4)}{3}$$

$$0 \frac{(x-0)(x-3)}{x+1}$$

$$04(x+1)$$

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

$$0 (2x-y+3)(4x+y-3)$$



Total questions in exam: 25 | Assured: 3

Question No. 25

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

- 05.
- 0.6
- 0.2
- SIA

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

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

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

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

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

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

- $(2m+3)^2$
- 0(2m-7)(2m-9)
- $9(2m-3)^2$
- (2m-3)(2m+3)

$$(5m+2)^2$$

- 0 25m2+20m+4
- 0 25m2+4
- 9 5m2+4
- $0.5m^2 + 20m + 4$

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

- O z= 9-6i
- z= -9-61
- O z= 9+6i
- O z= -9+61

Using set notation, the elements belonging to the set (x) x is a natural number less than 2) are

- 0 (0)
- ⊕ {Ø}
- 00
- 0 {1}

Factor
$$x^2 - 8x - 20$$

- (x+1)(x-20)
- (x+2)(x-10)
- $\Theta(x-2)(x+10)$
- (x+2)(x+10)

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

$$04 - \sqrt{7}$$

$$02 - \sqrt{7}$$

$$0 - 2 + \sqrt{7}$$

$$0 - 4 + \sqrt{7}$$

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

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

$$0.10x^2 - 57xy - 77y^2$$

$$0.5x^2 - 57xy + 77y^2$$

$$0.10x^2 - 13xy + 77y^2$$

$$0.10x^2 - 57xy + 77y^2$$

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

$$0(3u+4)^2$$

$$0(3u+4)(3u-14)$$

$$0 (3u+14)(3u-4)$$

$$0(3u-4)^2$$

Question No. 12 The solution set of the equation 6(x-2)=2-x is @ {2} 02 0 (2, -2) 00

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

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

Simplify and write in the standard form of a complex number

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

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

$$\circ$$
 $-\frac{72}{65} - \frac{32}{65}i$

$$\circ$$
 $\frac{72}{97} + \frac{32}{97}i$

$$\circ \frac{72}{65} - \frac{32}{65}i$$

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

- 0-2
- 0 8
- 00
- 0 -8

Solve A = P(1 + nr) for r

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

$$or = \frac{pn}{A-P}$$

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

$$r = \frac{p_{-A}}{p_n}$$

Which one of the following equations is a contradiction?

$$0.3(5x-3) = 15x+19$$

$$0 - 2(x + 8) + 3x = x - 16$$

$$0.5x - 4 = 11$$

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

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

$$\odot \, \frac{24b^3c^2}{a^5}$$

$$\bigcirc \ \frac{96b^3c^2}{a^5}$$

$$\bigcirc \frac{96bc^2}{a^5}$$

$$\bigcirc \frac{24bc^2}{a^5}$$

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

$$x = 2, y = 2$$

$$x = 8, y = 2$$

$$x = 9, y = 3$$

$$x = 6, y = 2$$

The base of -5 p4 is

- ⊙ -5p
- 05
- 04
- Op

Save & Nex

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

- @ 29
- 03
- 0 33
- 0 27

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

- 0 Ø
- 0 1
- 0 A
- 0 -1

Save & Next

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

- $\circ \frac{a+b}{a}$
- $\odot \frac{-a+b}{a}$
- $\Theta \frac{a}{a+b}$
- $\frac{-a}{a+b}$

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

o no real solutions

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

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

Total questions in exam. 25 | Answered: 0

Question No. 10

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

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

$$0 \left\{ \frac{1}{3} \left(1 \pm i \sqrt{31} \right) \right\}$$

$$0 \left\{ \frac{1}{3} \left(-1 \pm i \sqrt{31} \right) \right\}$$

$$0 \left\{ \frac{1}{4} \left(-1 \pm i \sqrt{31} \right) \right\}$$

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

Total questions in exam: 25 | Answered: 10

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

$$0 2(m+1)$$

Total questions il exam: 25 | Answered 4

Question No. 5

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