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2019-2020

Dr. A

Math_Quiz1_Sem

MECL OES

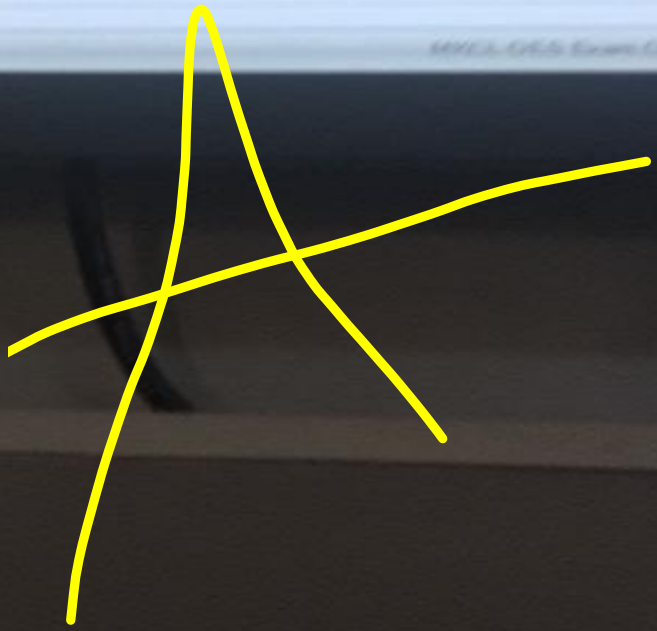
Question No. 8

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

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

Save & Next

HP LE1851w



MKCL OES

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

$b^2 - 4ac$

MKCL OES

Math_Quiz

Total questions in exam: 25 | Answered: 3

Question No. 1

Let $x \in \mathbb{Z}$. Simplify the following expression $a = 3i^{132x^2+4x-3}$

- $a = -3$
- $a = -3i$
- $a = 3$
- $a = 3i$

Save & Next

MKCL OES

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

Question No. 1

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

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

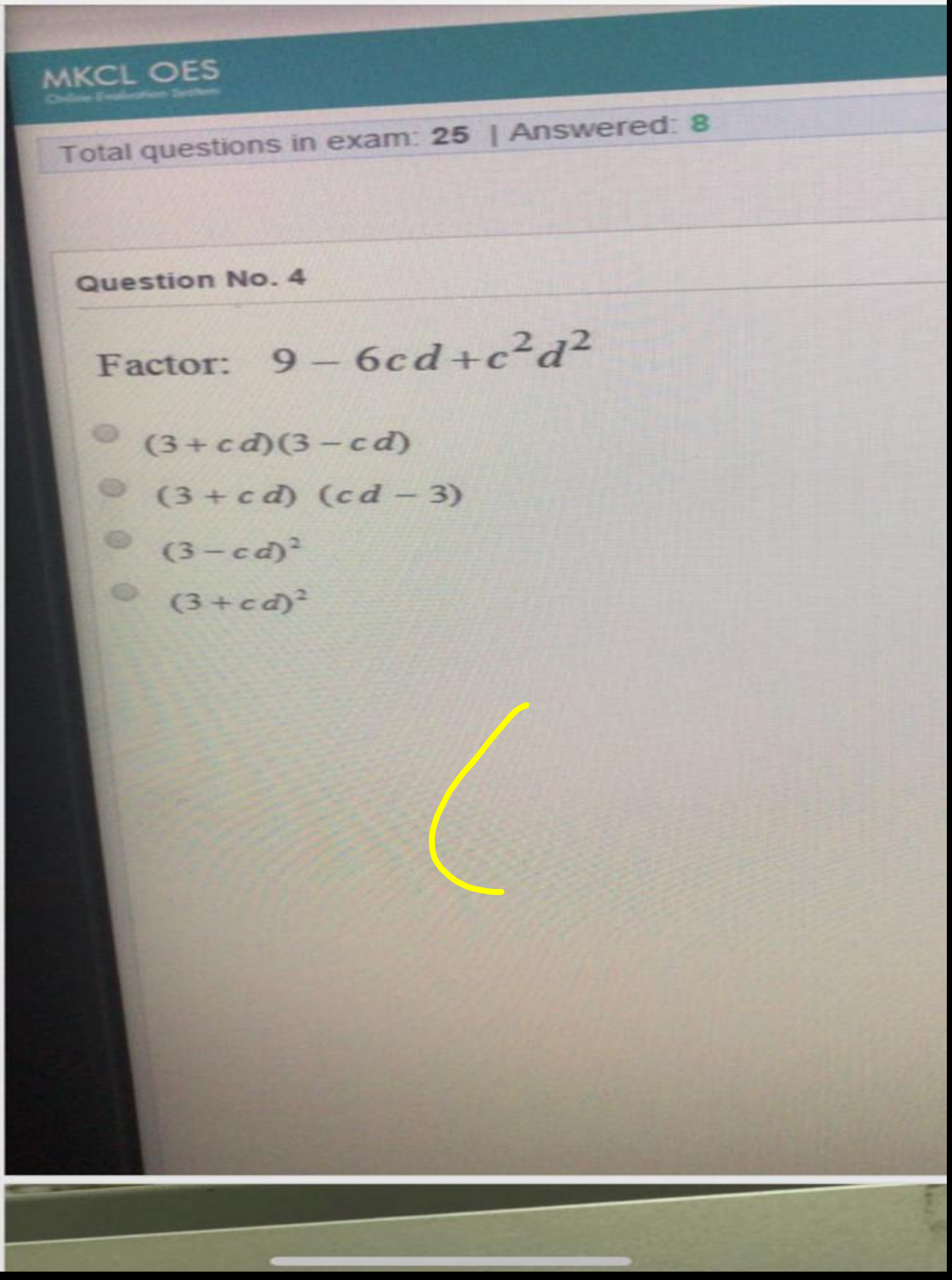
MKCL OES
Online Evaluation System

Total questions in exam: **25** | Answered: **7**

Question No. 8

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

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


MKCL OES
Total questions in exam: 25 | Answered: 8
Question No. 4
Factor: $9-6cd+c^2d^2$
$(3+cd)(3-cd)$
$(3+cd)\ (cd-3)$
$(3-cd)^2$
$(3+cd)^2$

Question No. 3

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

- $\frac{54}{31}$
- $-\frac{216}{31}$
- $-\frac{270}{31}$
- $\frac{144}{31}$

Save & Next

HP LE1901w

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

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

MKCL OES

Total questions in exam: **25** | Answered: **7**

Question No. 8

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

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

166 / 25

Total questions in exam: 25 | Answered: 7

Question No. 5

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

- ∅
- 1
- All real numbers
- {2,3}

Question No. 14

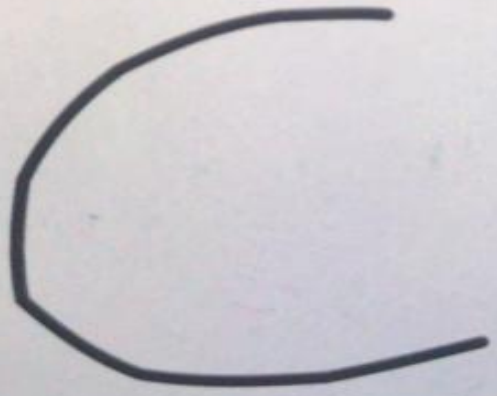
Simplify $\dfrac{a^{\frac{4}{3}} \times b^{\frac{2}{3}}}{(ab)^{\frac{1}{3}}}$

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

Question No. 7

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

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



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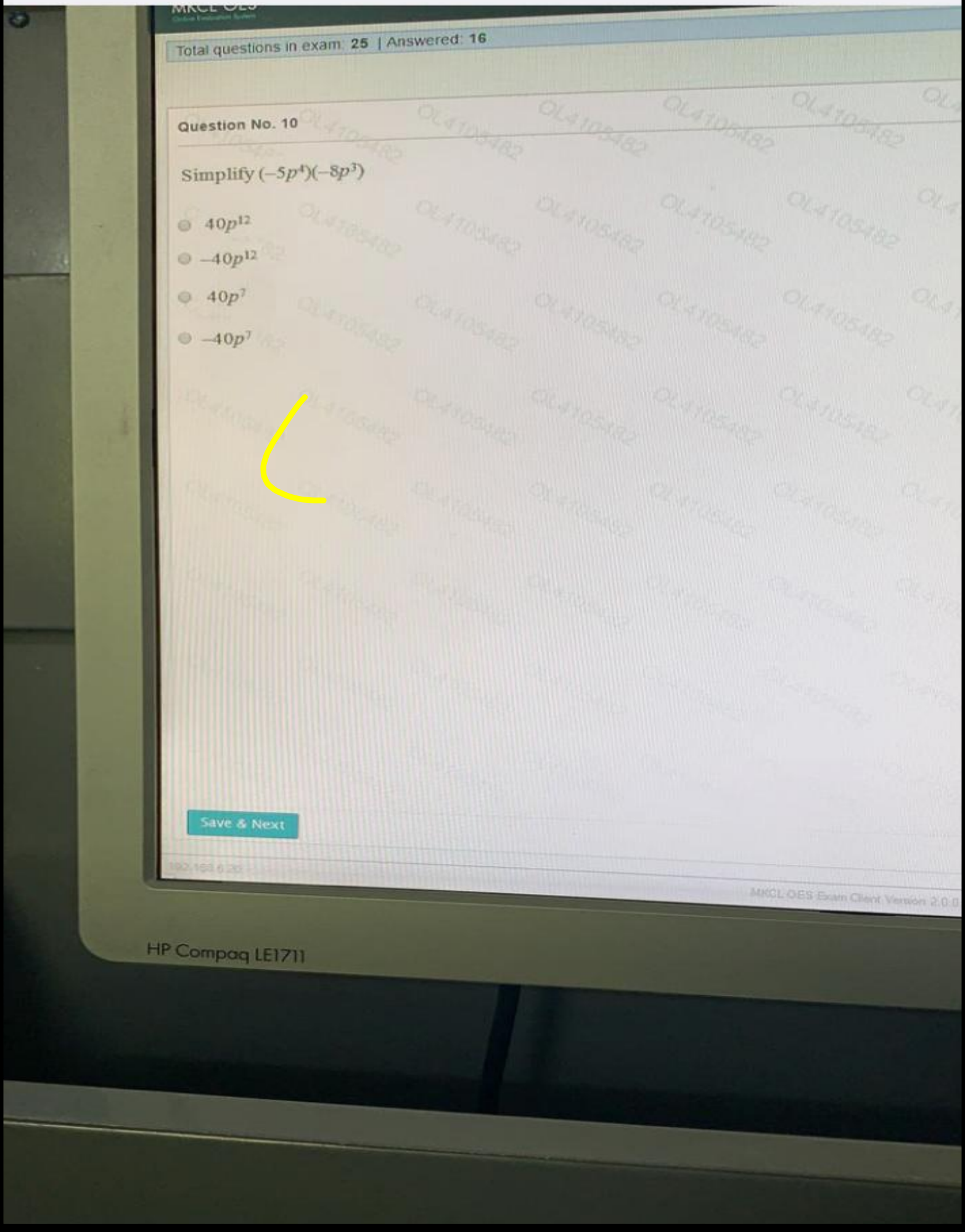


Total questions in exam: 25 | Answered: 6

Question No. 19

A⁻

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

$$\frac{3x-6}{24x}+\frac{3x+6}{24x}$$

- ○
- ○
- ○
- ○

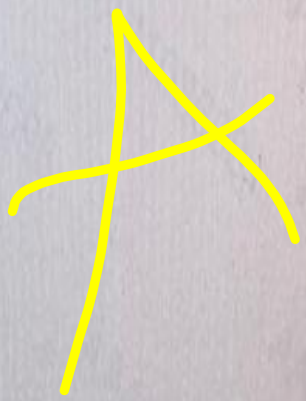
Total questions in exam: **25** | Answered: **6**

Question No. 21

A⁻ A A⁺

Let $\left\{-3.5, -1\frac{3}{4}, 3.25, -\sqrt{3}, -0.8, \pi, \frac{9}{2}, \sqrt{36}\right\}$. List all the numbers in the set that are elements of rational numbers.

- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \frac{9}{2}, \sqrt{36}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \pi, \frac{9}{2}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \pi, \frac{9}{2}, \sqrt{36}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \frac{9}{2}\right\}$



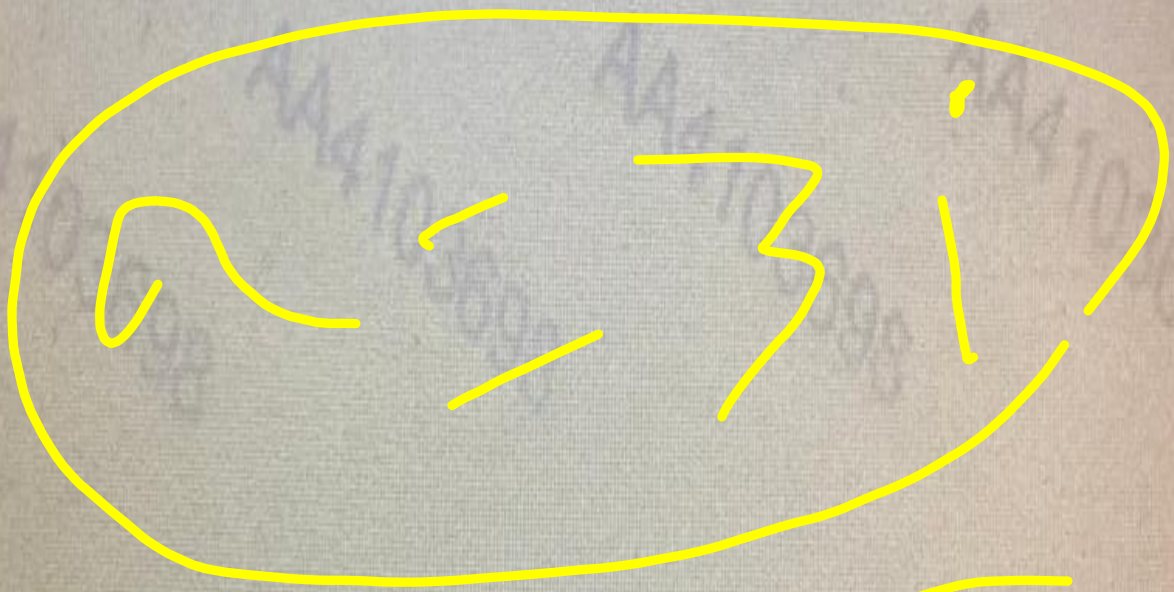
on No. 23

$\in \mathbb{Z}$. Simplify the following expression $a = 3i^{132x^2+4x-3}$

$3i$

3

$-3i$



tal questions in exam: 25 | Answered: 6

Question No. 18

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

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

Question No. 20

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

- $5(5x^2y^3 + 2xy^2)$
- $5y^2\,(5x^2y + 2x)$
- $5xy^2\,(5xy + 2xy^2)$
- $5xy^2\,(5xy + 2)$

Question No. 22

A⁻

Simplify: $-i\sqrt{2}-2-(6-4i\sqrt{2})-(5-i\sqrt{2})$

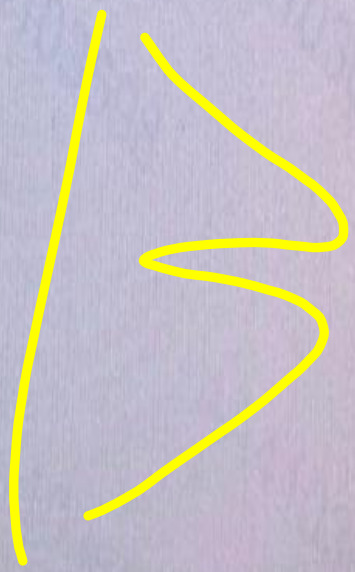
- $-13+4i\sqrt{2}$
- $-4+4i\sqrt{2}$
- $-13-4i\sqrt{2}$
- $13+4i\sqrt{2}$

Total questions in exam: **25** | Answered: **6**

Question No. 17

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

- 8
- -8
- -2
- 0

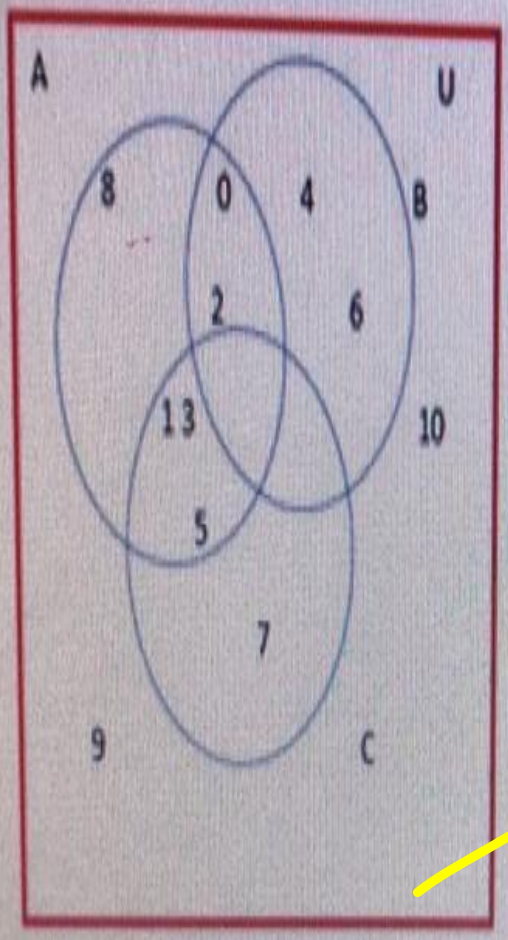


Question No. 16

Simplify $\dfrac{5x^4-10x^3+20x}{-15x^2+10x}$

- $\dfrac{x^3-2x^2+4}{3x+2}$
- $\dfrac{x^3+2x^2+4}{3x-2}$
- $\dfrac{x^3+2x^2+4}{-3x+2}$
- $\dfrac{x^3-2x^2+4}{-3x+2}$

Use the Venn diagram to determine U



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

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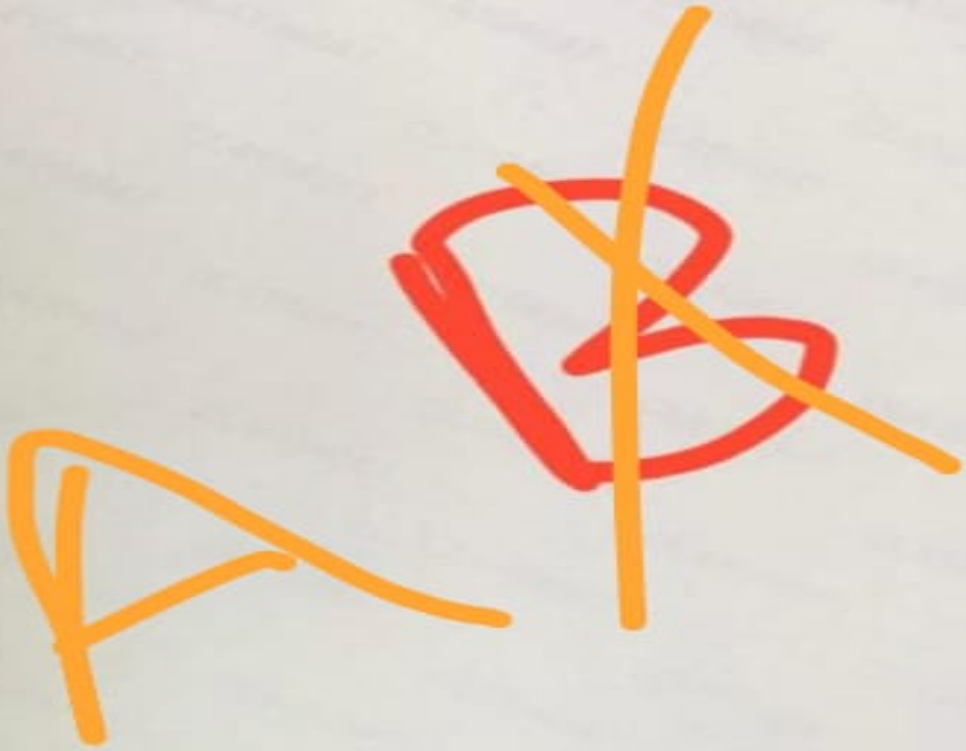
Math_Quiz1_Sem1

Total questions in exam: 25 | Answered: 3

Question No. 17

Perform the indicated operation $\frac{x^{1/2}y^{-3/4}}{x^{-1/2}y^{3/2}}$

- $\frac{x^{5/6}}{y^{9/4}}$
- $\frac{y^{5/6}}{x^{9/4}}$
- $\frac{x^{3/4}}{y^{1/6}}$
- $\frac{y^{3/4}}{x^{1/6}}$



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Question No. 18

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

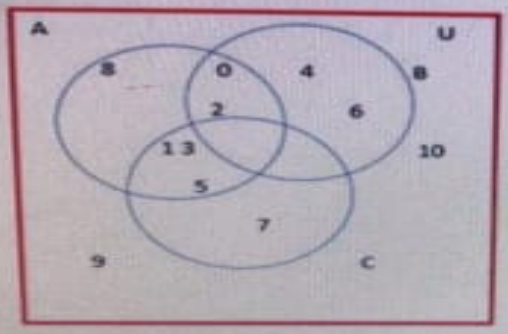
- $\frac{1125}{56}$
- 5
- 280
- $\frac{1125}{2}$

Question No. 14

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

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

Use the Venn diagram to determine U



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

A

Question No. 16

Simplify $\frac{5x^4-10x^3+20x}{-15x^2+10x}$

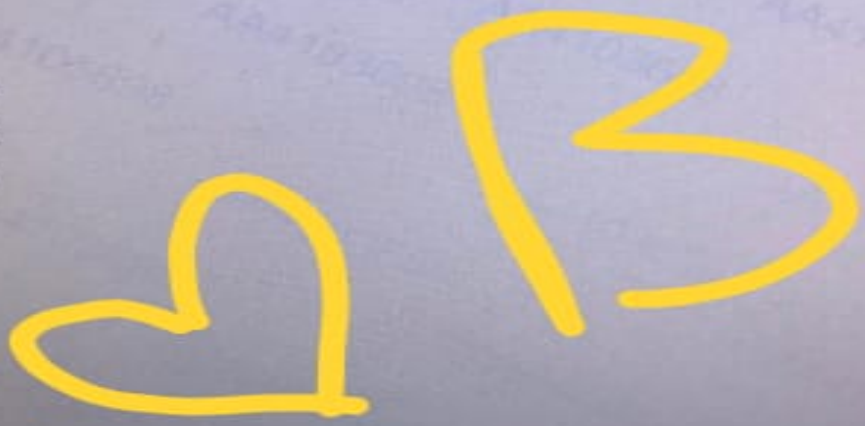
- $\frac{x^3-2x^2+4}{3x+2}$
- $\frac{x^3+2x^2+4}{3x-2}$
- $\frac{x^3+2x^2+4}{-3x+2}$
- $\frac{x^3-2x^2+4}{-3x+2}$

Total questions in exam: **25** | Answered: **6**

Question No. 17

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

- 8
- -8
- -2
- 0



MKCL OES

Math_Quiz1_Sem1_2019

Total questions in exam: **25** | Answered: **6**

Question No. 21

A⁻ A A⁺

Let $\left\{-3.5, -1\frac{3}{4}, 3.25, -\sqrt{3}, -0.8, \pi, \frac{9}{2}, \sqrt{36}\right\}$. List all the numbers in the set that are elements of rational numbers.

- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \frac{9}{2}, \sqrt{36}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \pi, \frac{9}{2}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \pi, \frac{9}{2}, \sqrt{36}\right\}$
- $\left\{-3.5, -1\frac{3}{4}, 3.25, -0.8, \frac{9}{2}\right\}$

A

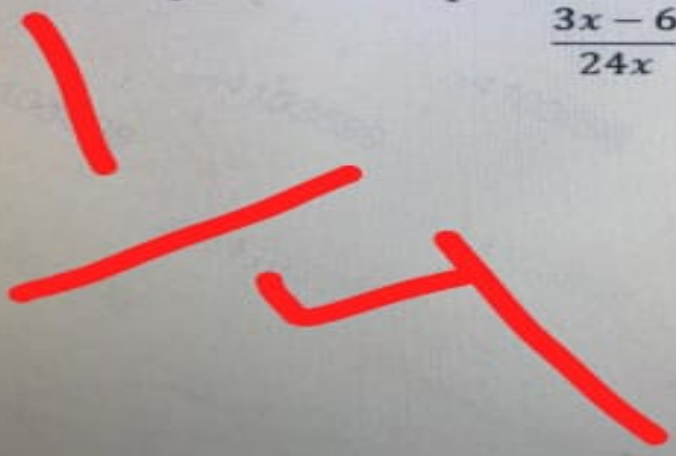
Total questions in exam: 25 | Answered: 6

Question No. 19

A⁻

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

$$\frac{3x-6}{24x}+\frac{3x+6}{24x}$$

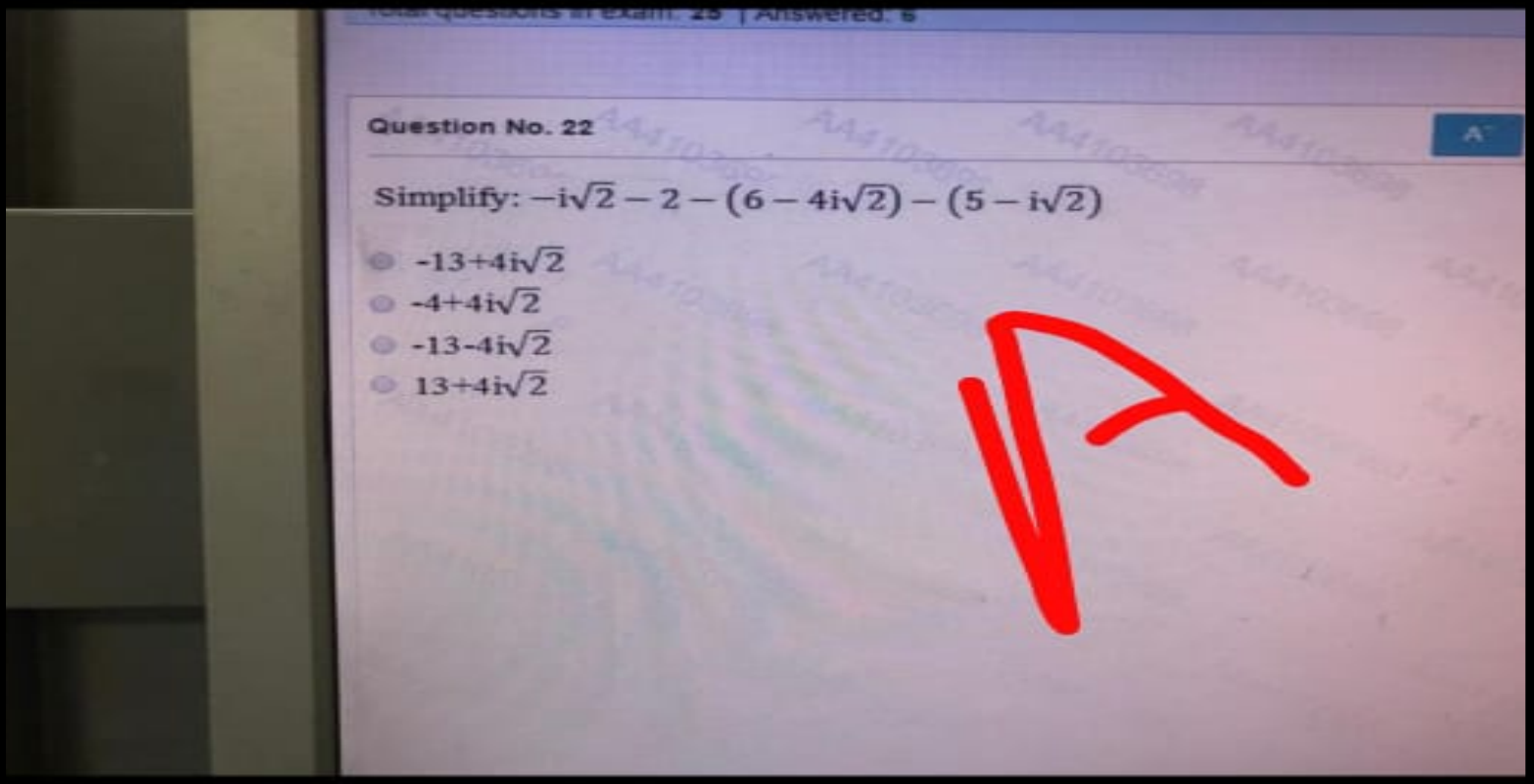


Question No. 14

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

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

A


Question No. 22
Simplify: $-i\sqrt{2}-2-(6-4i\sqrt{2})-(5-i\sqrt{2})$
-13+4i√2
-4+4i√2
-13-4i√2
13+4i√2
A

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. 20

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

- $5(5x^2y^3 + 2xy^2)$
- $5y^2\,(5x^2y + 2x)$
- $5xy^2\,(5xy + 2xy^2)$
- $5xy^2\,(5xy + 2)$

Question No. 7

The expression $x\,y\,z$ can be classified as a

- binomial
- none of these
- trinomial
- monomial

Question No. 6

Evaluate i^{19}

- -1
- 3
- -i
- 1

Question No. 18

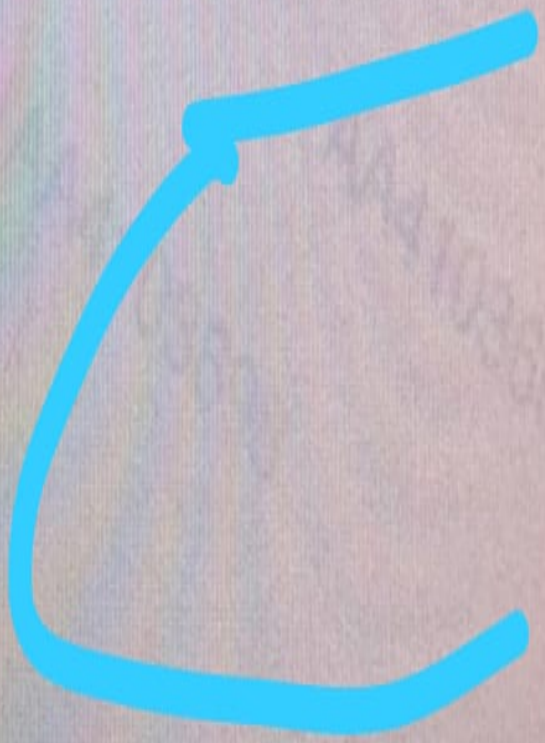
Solve $75 - \frac{x}{7} = \frac{x}{8}$

- $\frac{1125}{56}$
- 5
- 280
- $\frac{1125}{2}$

Question No. 6

The solution set of the equation $5(2x-1)=2+10x$ is

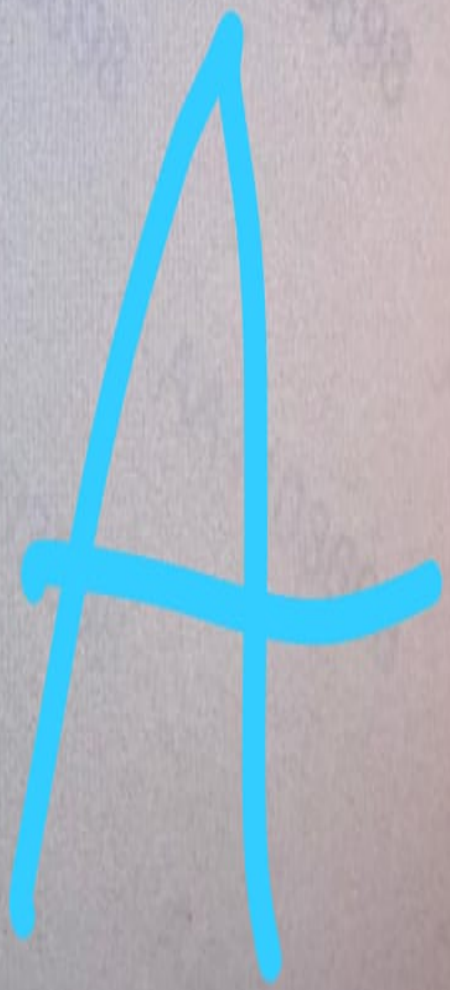
- 1
- {1,2}
- ∅
- {5}



Question No. 4

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

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



MKCL OES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 20

Factor $x^2 - 8x - 20$

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

MKCL OES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 17

Perform the indicated operation $\frac{x^{1/3}y^{-3/4}}{x^{-1/2}y^{3/2}}$

- $\frac{x^{5/6}}{y^{9/4}}$
- $\frac{y^{5/6}}{x^{9/4}}$
- $\frac{x^{3/4}}{y^{1/6}}$
- $\frac{y^{3/4}}{x^{1/6}}$

B

MKCL OES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 21

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

$$3\sqrt{-75}$$

- $75i\sqrt{3}$
- $15i\sqrt{3}$
- $3i\sqrt{5}$
- $-15i\sqrt{3}$

MKCL OES

Math_Quiz1_Sem1_201

Total questions in exam: 25 | Answered: 3

Question No. 23

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

- $\frac{13}{12y}$
- $\frac{2}{12y}$
- $\frac{11}{12y}$
- $\frac{2}{9y}$

A

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Online Evaluation System

Math_Quiz

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

Question No. 1

Let $x \in \mathbb{Z}$. Simplify the following expression $a = 3i^{132x^2+4x-3}$

- (•) $a = -3$
- ( ) $a = -3i$
- ( ) $a = 3$
- ( ) $a = 3i$

MECL OES

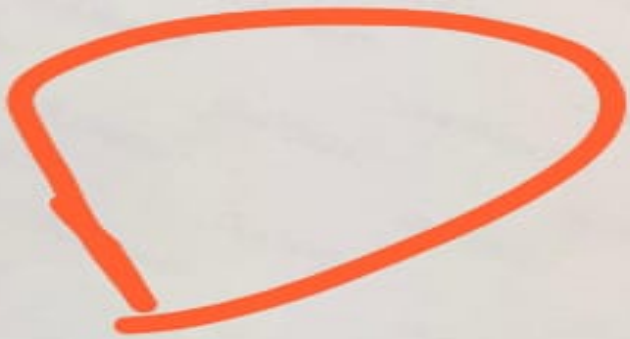
Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 16

Evaluate $-\sqrt{-121}$

- -11
- 11i
- 11
- -11i



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MECL OES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 0

Question No. 15

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

- $\frac{1125}{2}$
- 280
- 5
- $\frac{1125}{56}$

Save & Next

PANEL: CBT

Question No. 6

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

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

A

Save & Next

Total questions in exam: 25 | Answered: 3

Question No. 25

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

- 5
- 6
- 2
- 4

MMCQ QES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 9

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

- $\frac{x^2-x-6}{x^2-4}$
- $\frac{x^2-x+6}{x^2-2}$
- $\frac{x^2-x+6}{x^2-4}$
- $\frac{x^2-x+6}{x^2+4}$

MKCL OES

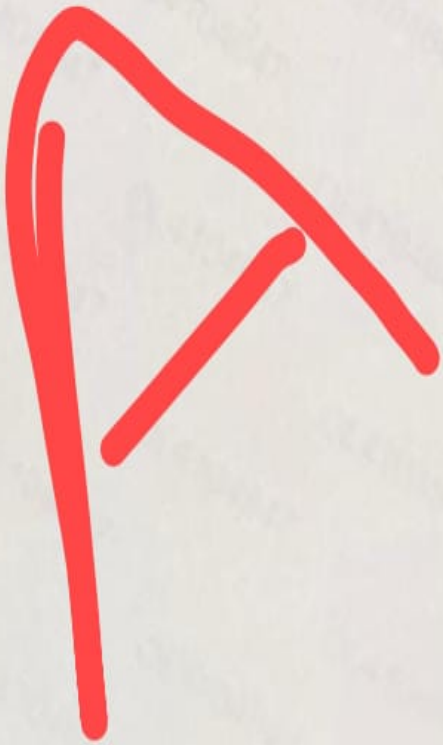
Math_Quiz1_Sem1_201

Total questions in exam: 25 | Answered: 3

Question No. 19

Factor the polynomial $2ax + 4bx - 3ay - 6by$ completely

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



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MKCL OES

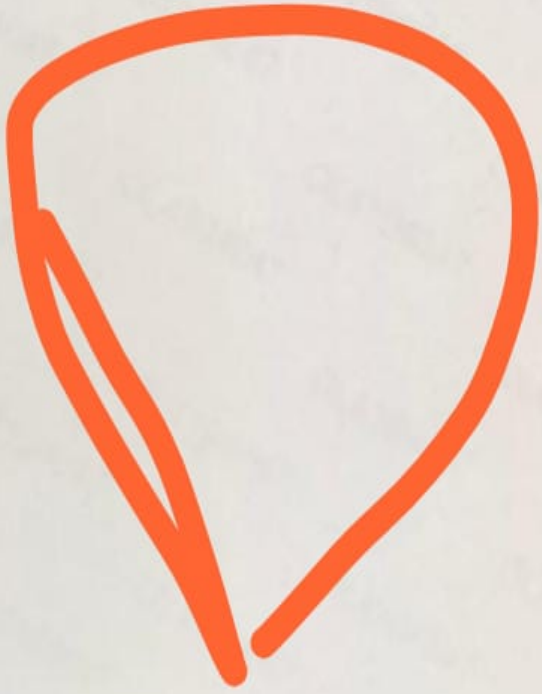
Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 24

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

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



MKCL OES

Math_Quiz1_

Total questions in exam: 25 | Answered: 8

Question No. 8

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

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

B

MKCL OES
Online Evaluation System

Math_Quiz1_Sem1_2019

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

Question No. 11

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

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

Save & Next

MKCL OES

Math_Quiz1_Sem1_2019

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
- $\frac{4m-8}{m-4}$

C

Save & Next

MKCL OES

Math_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 3

Question No. 13

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

- 2xy
- 2
- 3
- 6

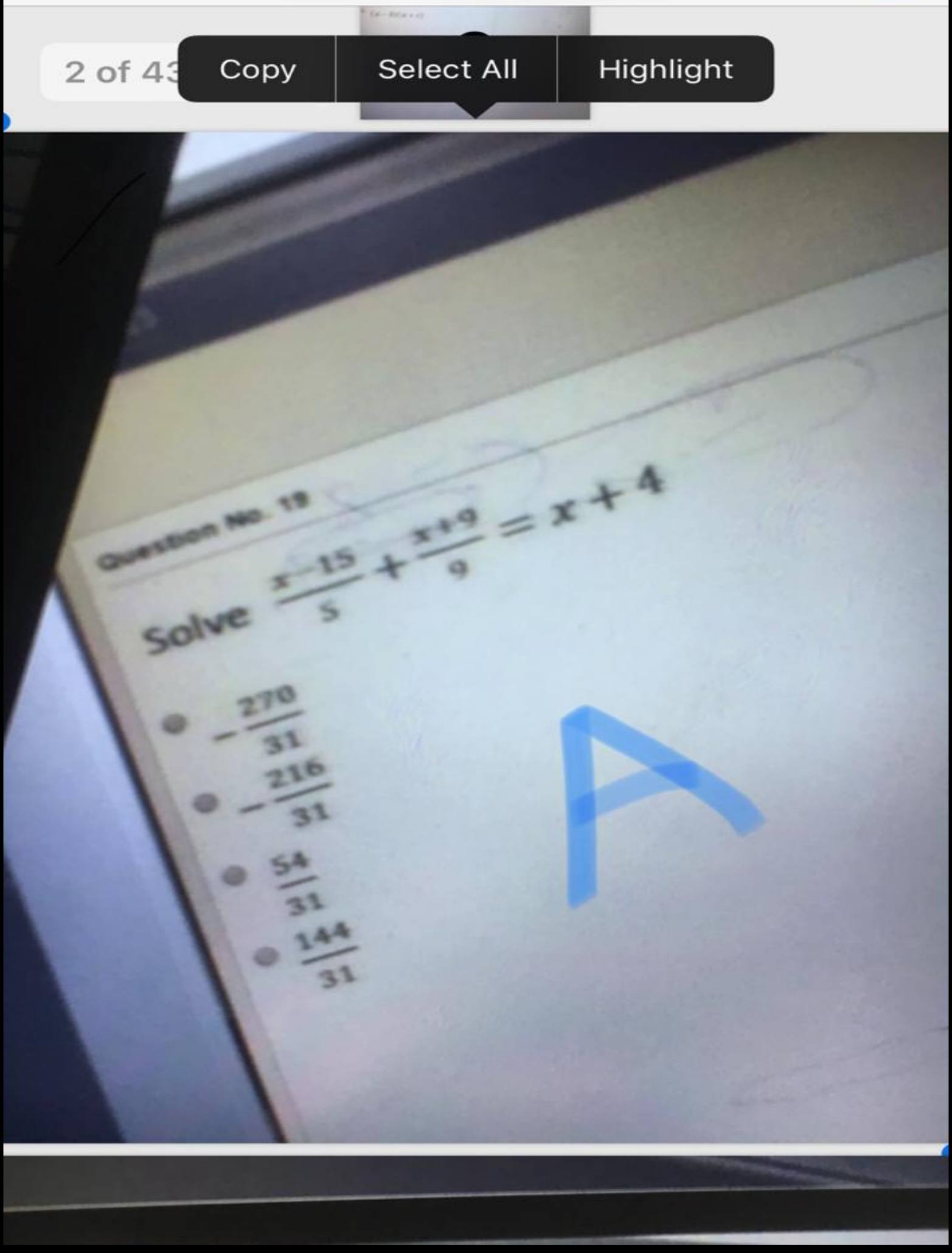
MKCL OES

Question No. 20

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

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

A


2 of 43
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Question No. 19
Solve $\frac{x-15}{5}+\frac{x+9}{9}=x+4$
$-\frac{270}{31}$
$-\frac{216}{31}$
$\frac{54}{31}$
$\frac{144}{31}$
A

MKCL OES

Math_Quiz1_Sem1_

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

Question No. 10

Select the equation that illustrates the distributive property

- 4 + 6 = 6 + 4
- 4 × 1 = 4
- 4 + (6 + 7) = (4 + 6) + 7
- 4 × (6 + 7) = 4 × 6 + 4 × 7

D