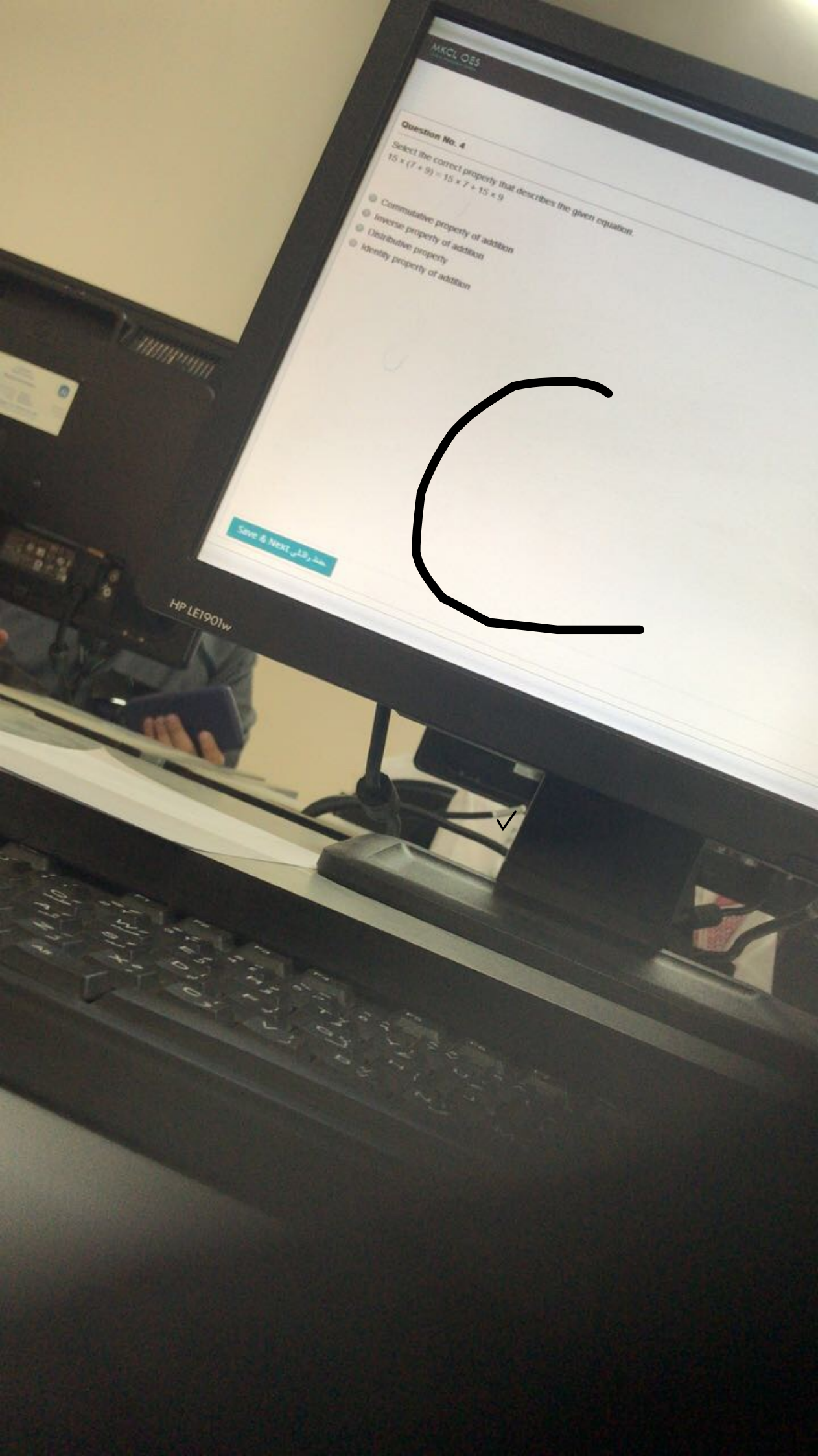
تجميعات رياضيات الكويز الأول

وبالتوفيق للجميع ✡


MKCL OES
Question No. 4
Select the correct property that describes the given equation
15 × (7 + 9) = 15 × 7 + 15 × 9
Commutative property of addition
Inverse property of addition
Distributive property
Identity property of addition
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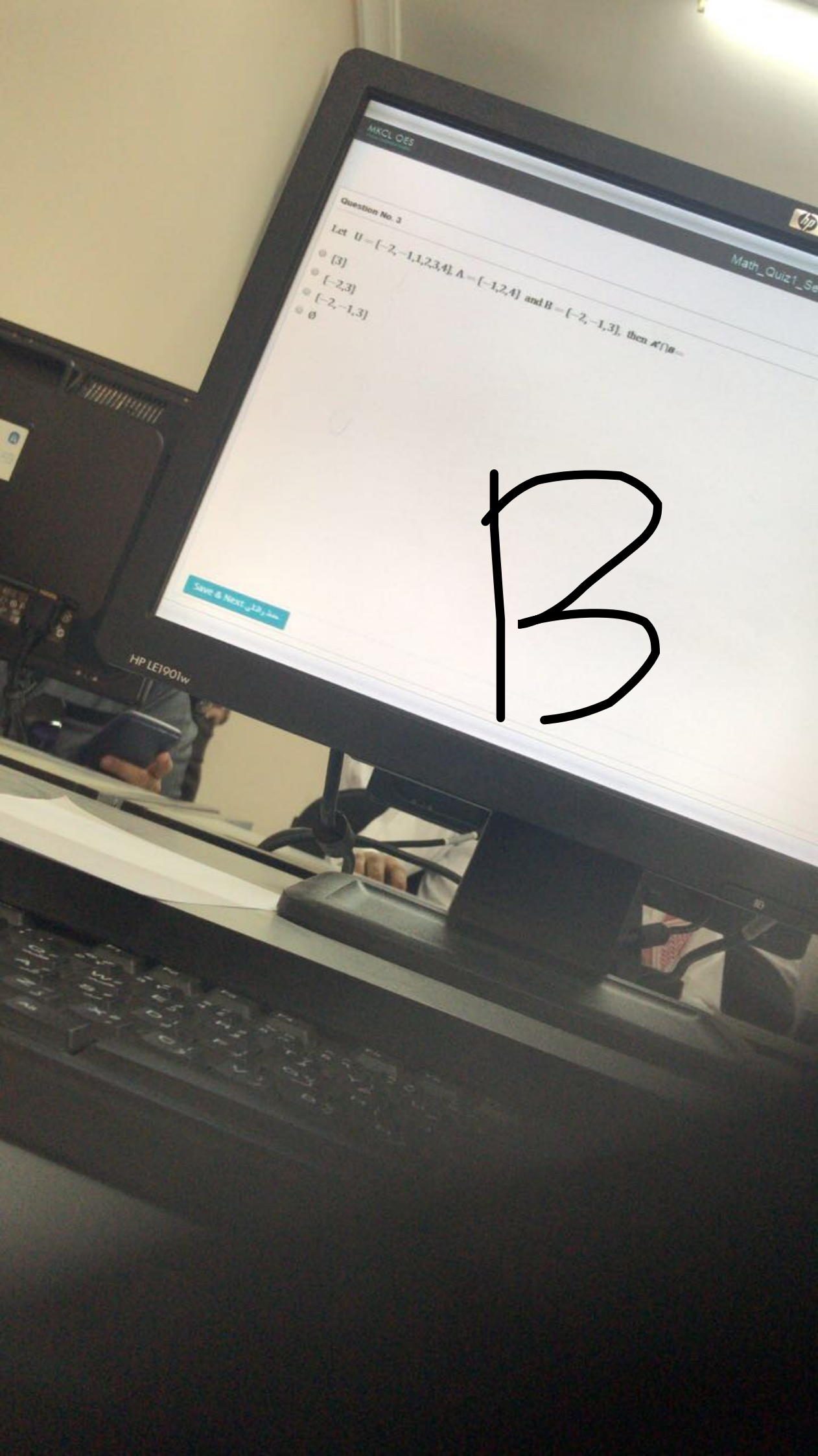
MKCL OES
Question No. 3
Let U = {−2, −1,1,2,3,4}, A = {−1,2,4} and B = {−2, −1,3}, then A'∩B =
{3}
{−2,3}
{−2, −1,3}
ϕ
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B

Question No. 11

The solution set of $x^2 = 3x - 6$ is

- $\left\{\frac{3 \pm i\sqrt{15}}{2}\right\}$
- $\{3 \pm \sqrt{3}\}$
- $\left\{\frac{3 \pm \sqrt{3}}{2}\right\}$
- $\{3 \pm i\sqrt{15}\}$

A

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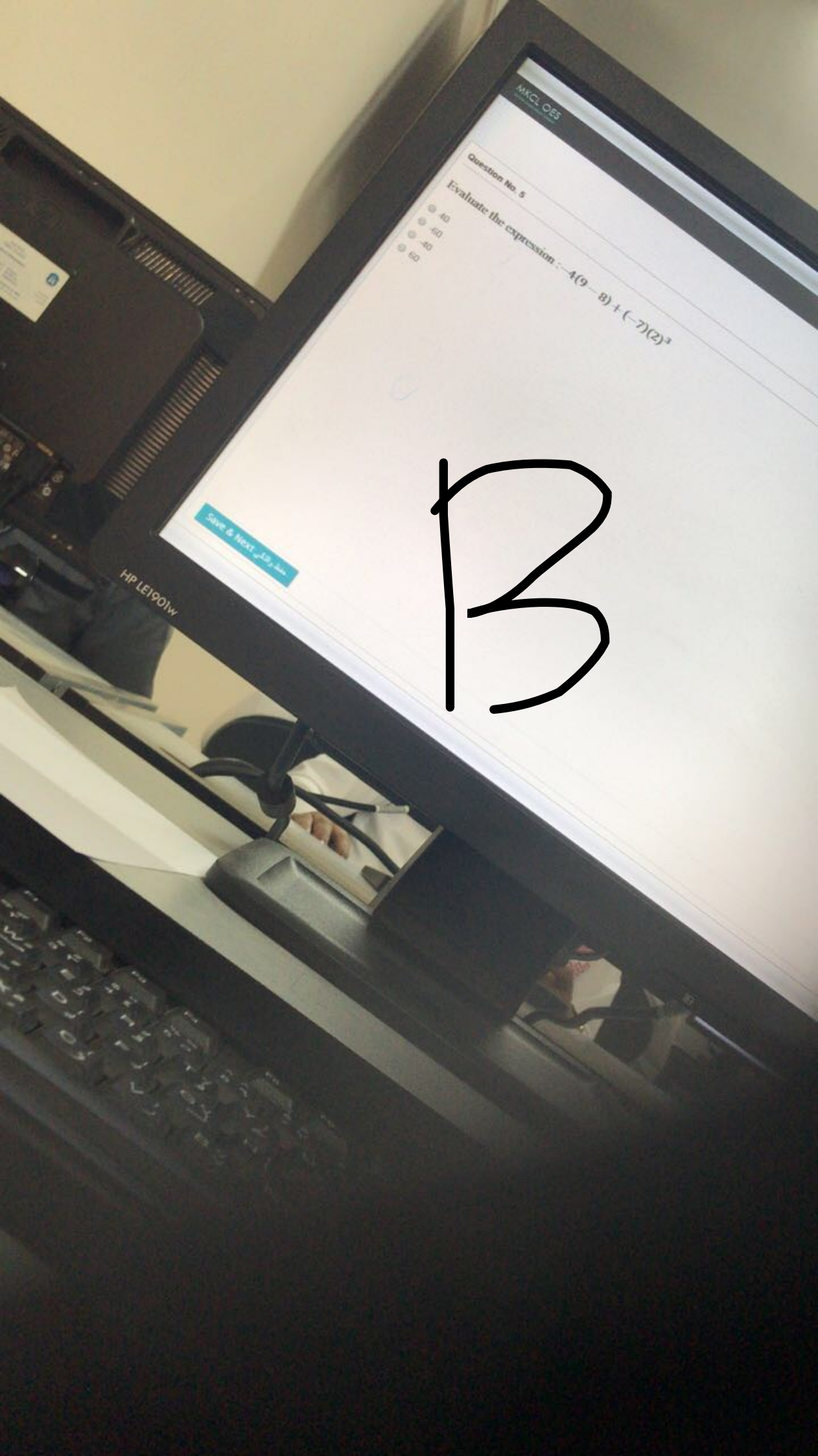
MKCL OES
Question No. 5
Evaluate the expression :−4(9−8)+(−7)(2)²
40
60
-40
-60
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B

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Question No. 1

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

- {7}
- {6}
- ∅
- {6,7}

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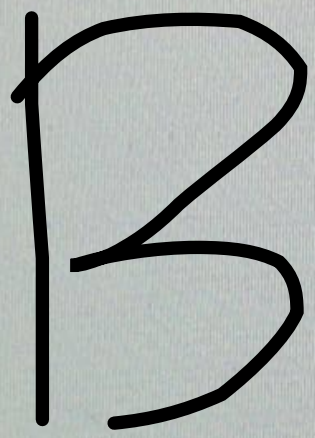
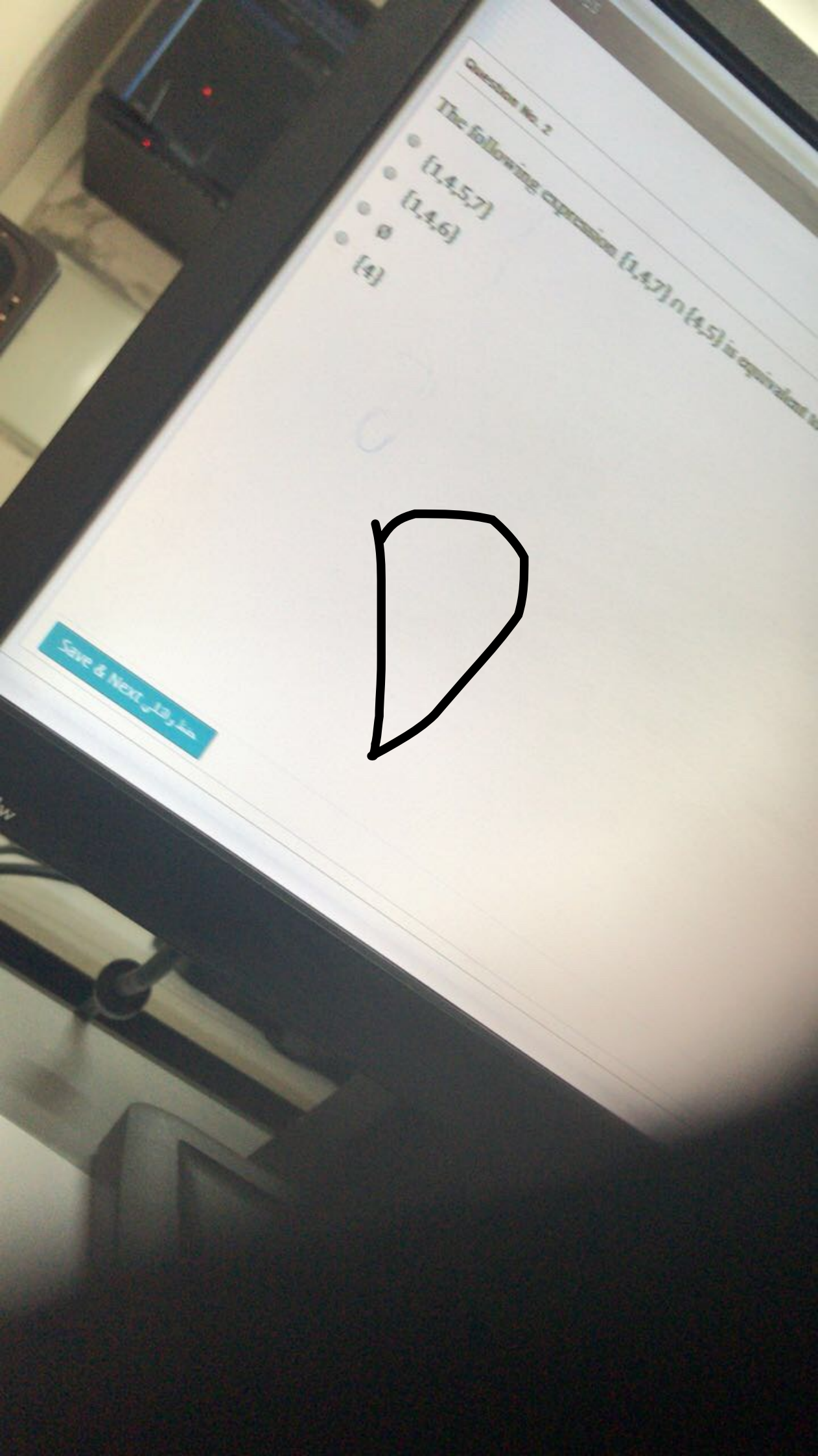
Question No. 10

The equation $x^2 + 225 = 0$ has

- 2 real solutions
- 2 imaginary solutions
- 1 real solution
- No solution



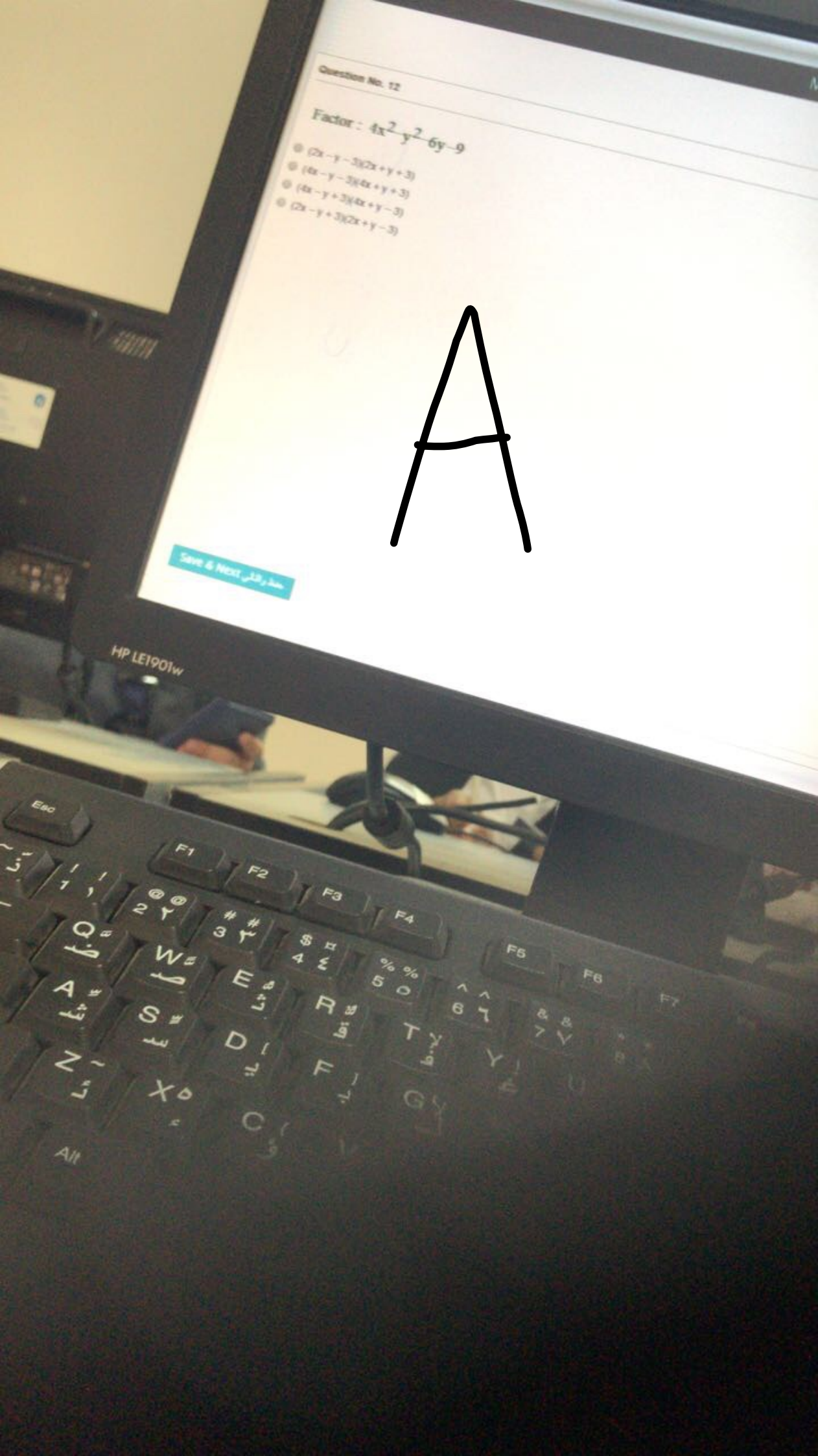

Question No. 2
The following expression {1,4,7} n {4,5} is equivalent to
{1,4,5,7}
{1,4,6}
Φ
{4}
Save & Next

Question No. 11

The solution set of $5x^2 - 35x = 0$ is

- {0,5,7}
- {0,7}
- {0,5}
- {5,-7}

B


Question No. 12
Factor : $4x^2 - y^2 - 6y - 9$
$(2x - y - 3)(2x + y + 3)$
$(4x - y - 3)(4x + y + 3)$
$(4x - y + 3)(4x + y - 3)$
$(2x - y + 3)(2x + y - 3)$
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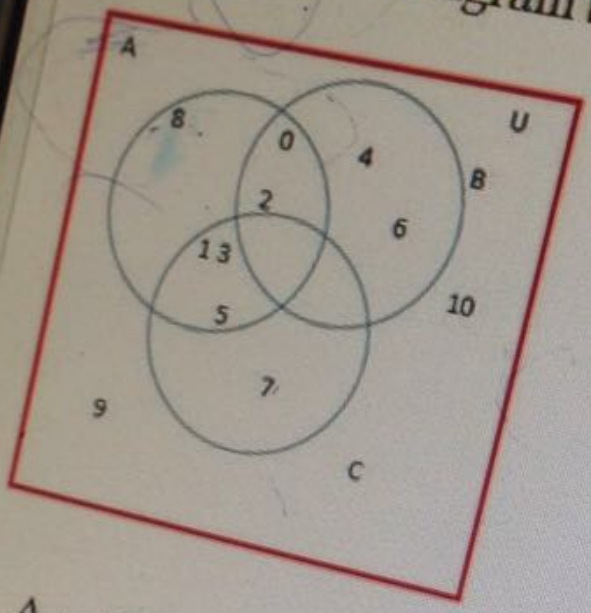
A

Use the Venn diagram to determine $A \cap B'$



- $A \cap B' = \{0, 2\}$
- $A \cap B' = \{0, 1, 2, 3, 5\}$
- $A \cap B' = \{1, 3, 5, 8\}$
- $A \cap B' = \{\}$

C

Question No. 17

Simplify $\left(\frac{-4n^6m^4}{m^2}\right)^{-3/2}$

- is not a real number
- $-\frac{1}{8n^9m^3}$
- $\frac{1}{8n^9m^3}$
- $-8n^9m^3$

B

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Question No. 4

Select the correct property that describes the given equation.
$11 + (-11) = 0$

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

C

Question No. 4

Select the correct property that describes the given equation.

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

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

C

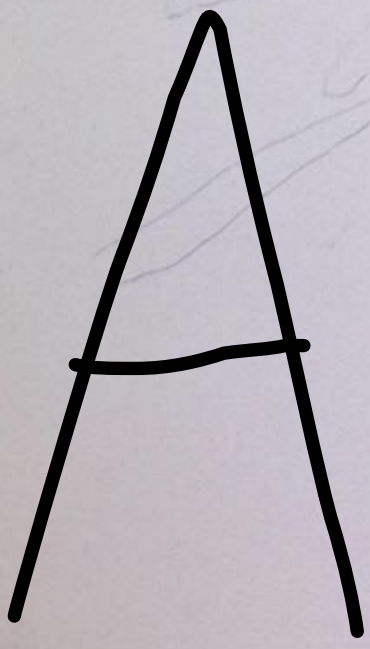
& Next

Question No. 15

Simplify the compound rational expression. Use either method.

$$\frac{1+\frac{3}{y-6}}{y+\frac{9}{y-6}}$$

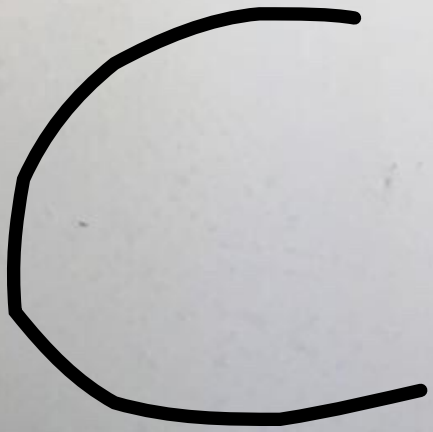
- $\frac{1}{y-3}$
- $\frac{4}{y+9}$
- $\frac{1}{y}+\frac{1}{3}$
- $\frac{1}{y+3}$



Question No. 7

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

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



Question No. 2

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

- ø
- {ø}
- {1}
- {0}

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

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

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Question No. 10

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

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

A

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Question No. 7

Simplify $(-5p^4)(-8p^3)$

- $40p^7$
- $40p^{12}$
- $-40p^7$
- $-40p^{12}$

A

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estion No. 13

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

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

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

C

Question No. 3

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

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

B

Question No. 5

a^3 means that

- a+a+a
- 3a
- (3+3+3)a
- a.a.a

D

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Question No. 15

Simplify: $\frac{\frac{2}{x-y}+\frac{1}{x+y}}{\frac{1}{x-y}}$

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

D

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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. 14

Find the sum $x + \frac{1}{x} - \frac{3}{x^2}$

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

A

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Question No. 12

Factor completely $x^6 - y^6$

- $(x^2 + y^2)(x^2 - xy + y^2)(x^2 + xy + y^2)$
- $(x - y)(x + y)(x^2 - 2xy + y^2)(x^2 + 2xy + y^2)$
- $(x - y)^6$
- $(x - y)(x + y)(x^2 - xy + y^2)(x^2 + xy + y^2)$

Save & Next

Question No. 6

The base of $-5p^4$ is

- 4
- 5
- p
- -5p

C

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Math

Question No. 22

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

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

B

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Question No. 8

The expression xyz can be classified as a

- monomial
- binomial
- none of these
- trinomial

D

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Question No. 9

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

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

D

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Question No. 10

Which expression is equivalent to $(x-1)^2-4$?

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

A

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Question No. 11

Factor $x^2 + 4x - 45$

- $(x - 9)(x + 5)$
- $(x + 9)(x + 5)$
- $(x + 9)(x - 5)$
- $(x + 1)(x - 45)$

C

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Question No. 1

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

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

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Mat

Question No. 16

Write the expression in simplified radical form $\frac{6}{\sqrt{38}-6}$

- $3\sqrt{38}-18$
- $3\sqrt{38}+18$
- $\frac{3\sqrt{38}}{16}$
- $3\sqrt{38}$

B

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Question No. 13

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

- $\frac{4p}{3}$
- $\frac{3}{4p}$
- $\frac{12p^3-12p^2}{9p^2-9p}$
- $\frac{54p^2+108p+54}{2p^2}$

A

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Question No. 19

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

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

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Math_

Question No. 21

Simplify and write in the standard form of a complex number

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

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

A

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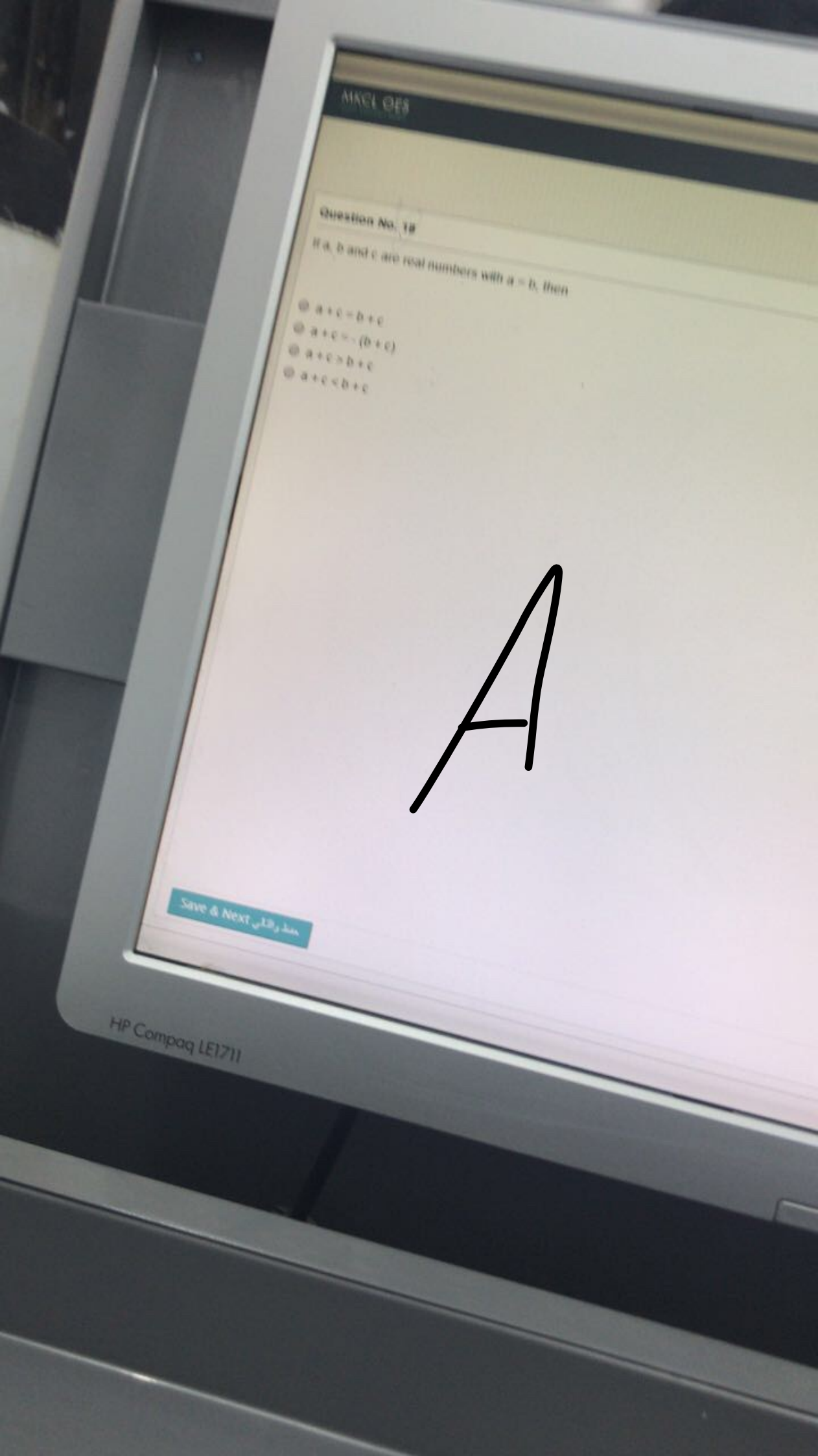
Question No. 18
If a, b and c are real numbers with a = b, then
a + c = b + c
a + c = - (b + c)
a + c > b + c
a + c < b + c
A
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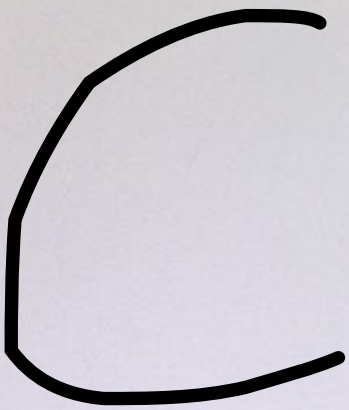
MKCL OES

Ma

Question No. 20

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

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



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Question No. 23

Find the quotient: $\frac{1-3i}{1+i}$

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

A

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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

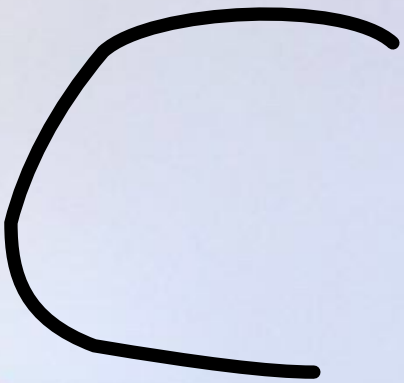
MKCL OES

Math_Q

Question No. 10

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

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



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