$$A. x = \frac{9y^3H^3}{(-1-2H^2)^2}$$

B.
$$x = \frac{3y^4H^3}{(-1-2H^2)^2}$$

$$C. x = \frac{3y^4H^2}{(-H-2H^2)^2}$$

$$D = \frac{9y^4H^2}{(-1-2H^2)^2}$$

- function defined b. $4x^2 8x + 3$, what

 coordinates of its vertex?

 A. (1, -1)B. (-1, 15)C. (2, 3)D. (-2, 35)

- $3x + 1, \text{ and } 3x > e^{x}$ of the following is true? y > 3B. y > 4C. y < 7D. $y \ge 4$ Highlighton and the following is true?

D.
$$y < 4$$

$$\sqrt{x^2 + 4} - 3 = x + 4$$

of the following is the following of the equation above?

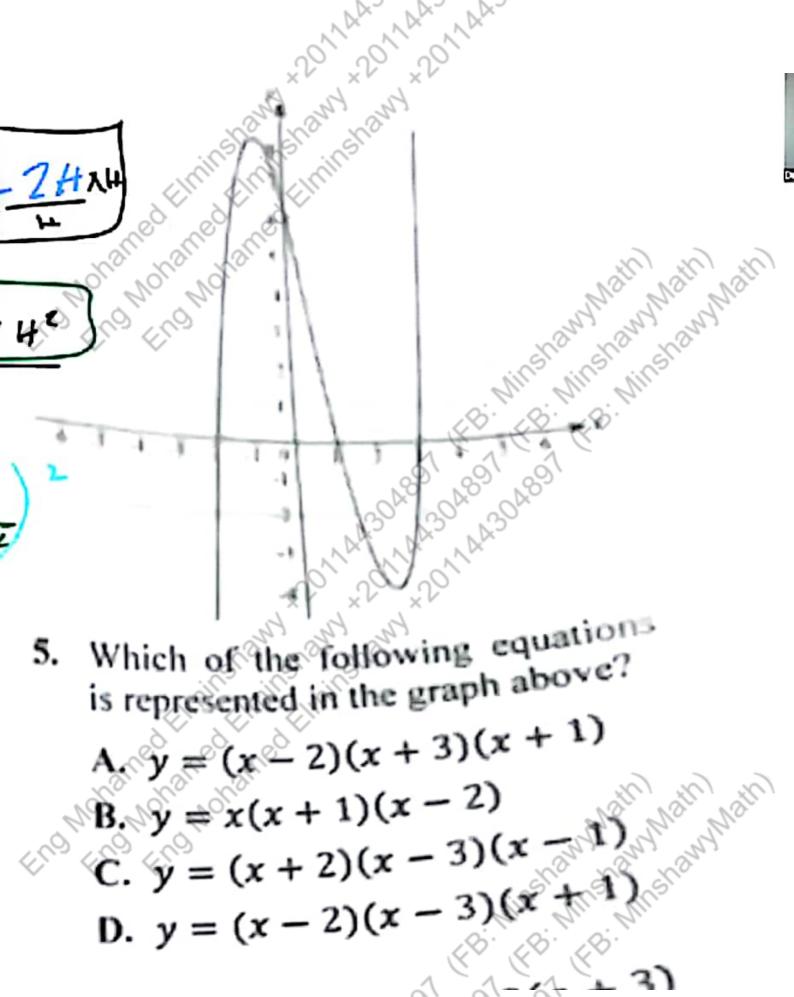
A. $x = -\frac{45}{14}$ B. $x = -\frac{14}{45}$ C. $x = \frac{14}{45}$ D. $x = \frac{14}{45}$ D. $x = \frac{14}{45}$

A.
$$x = -\frac{45}{14}$$

B.
$$x = \frac{14}{45}$$

$$C. x = \frac{14}{45}$$

$$D. x = \frac{45}{14}$$



5. A. y = (x - 2)(x + 3)(x + 1)B. $y \Rightarrow x(x + 1)(x - 2)$

$$A_{x}y = (x-2)(x+3)(x+1)$$

B.
$$y \Rightarrow x(x+1)(x-2)$$

C.
$$y = (x + 2)(x - 3)(x - 3)$$

A.
$$y = (x - 2)(x + 3)(x + 1)$$

B. $y = x(x + 1)(x - 2)$
C. $y = (x + 2)(x - 3)(x - 1)$
D. $y = (x - 2)(x - 3)(x + 1)$
D. $y = (x - 2)(x - 3)(x + 1)$

D.
$$y = (x - 2)(x - 3)(x + 1)$$

$$2a + 3(4a - 5) + 2 = 3(a^{2} + 3)$$

D. y = (x - 2)(x - 3)(x + 1) 2a + 3(4a - 5) + 2 = 3(ax + 3)6. Solve the equation above for a.

A. a = 1 6 = 2 6 = 4 6 = 1 7 = 1 7 = 1 7 = 1 8 = 1

A.
$$a = 1$$

B.
$$a = 2$$

$$C^{\circ}a = 4$$

ch of the following is/are modulation for |2x| = 11 > 3?

If |2x| = 11 > 3?

A. I only

B. If only

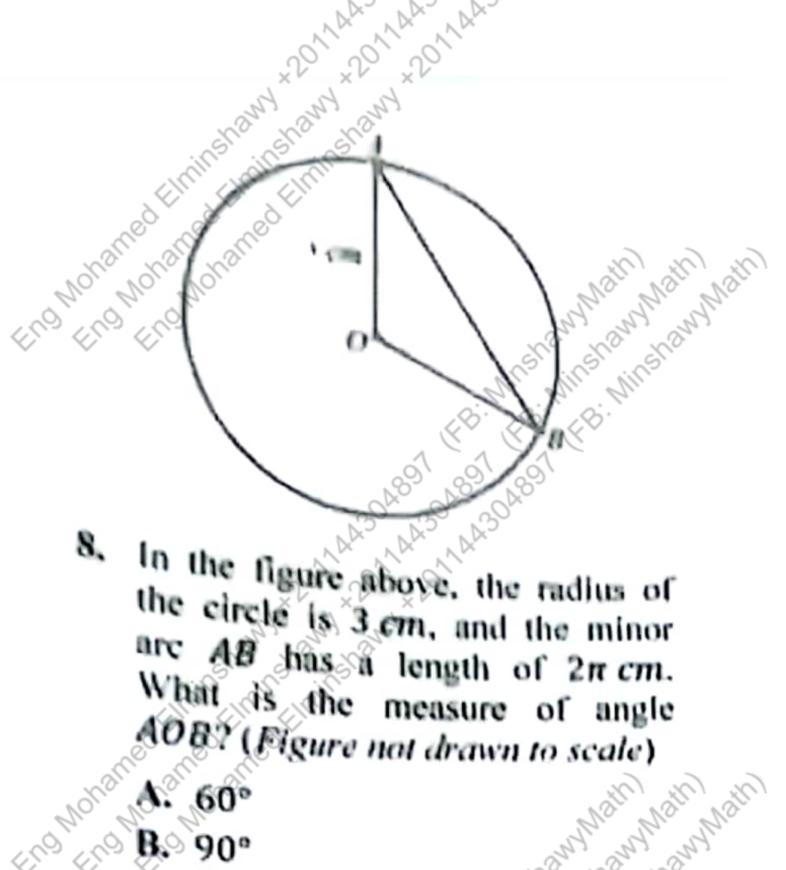
C. I and II

D. II and III Which of the following is/are not a

$$1. x \Rightarrow -2$$

$$11. x = 0$$

$$111.x = 2$$



8. AOB? (Figure not drawn to scale)

B. 90° THE STANTAGE OF THE STANTAGE O THE NINGHAM AND ASSISTED TO STANDARD TO ST 2011 AA30A891 (F.B. MinshawyMath) Eng Malan

B. 90°

120°

D. 135°

 $\begin{array}{ll}
\text{If } x = 2a, \text{ and } a = \frac{120}{1000} \\
\text{value of } 2x + 5?$ $\begin{array}{ll}
\text{A. 1.} & \text{A.$ ** 8 Ind Notating The Notating of Fining Stand & South Associated Fining Standard & South Associated Fin

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- 10. Given the line with equation 5y 3(x 2) = -1, which of the
- The slope of the line is $\frac{3}{5}$, and
 - B. The slope of the line is $-\frac{3}{\epsilon}$, and the line is decreasing.
- C. The slope of the line is $\frac{3}{5}$, and the line is increasing.

 D. The slope of the line is $-\frac{3}{5}$, and the line is increasing.

III. If
$$i^2 = -1$$
, what is the sum of $4 + 7i$ and $-2 + 7i$?

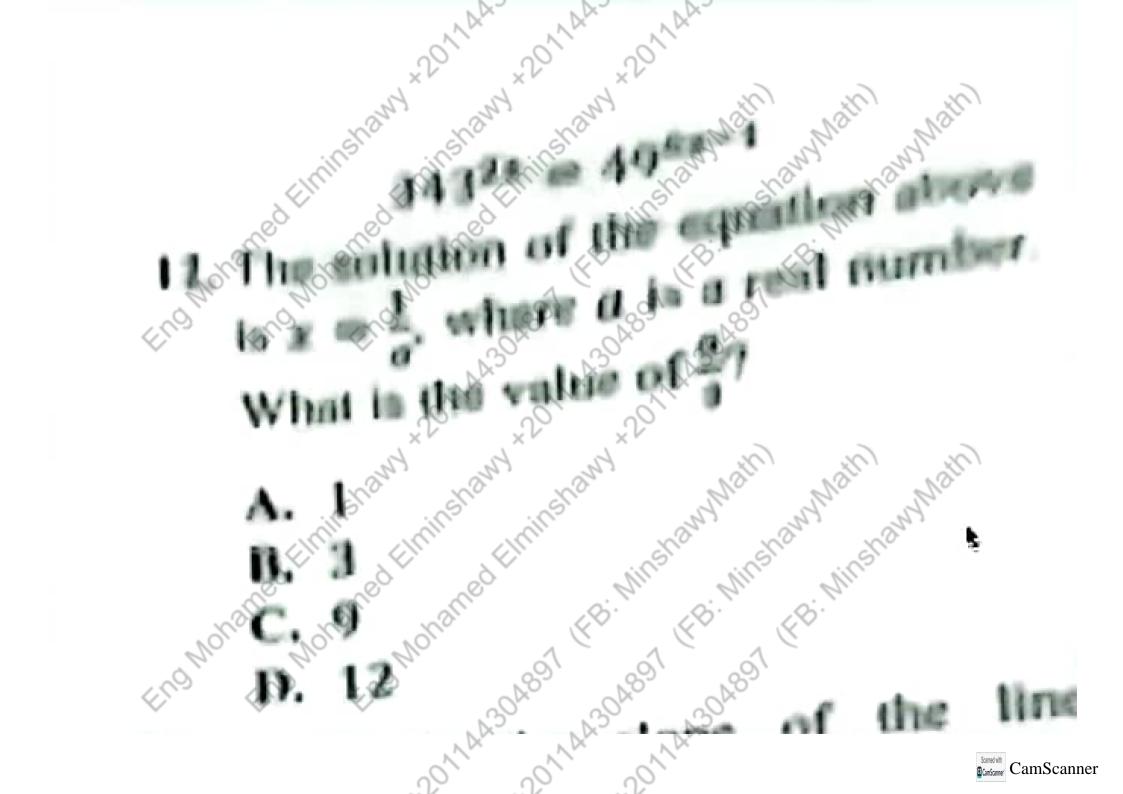
At 1 + 14i and $-2 + 7i$?

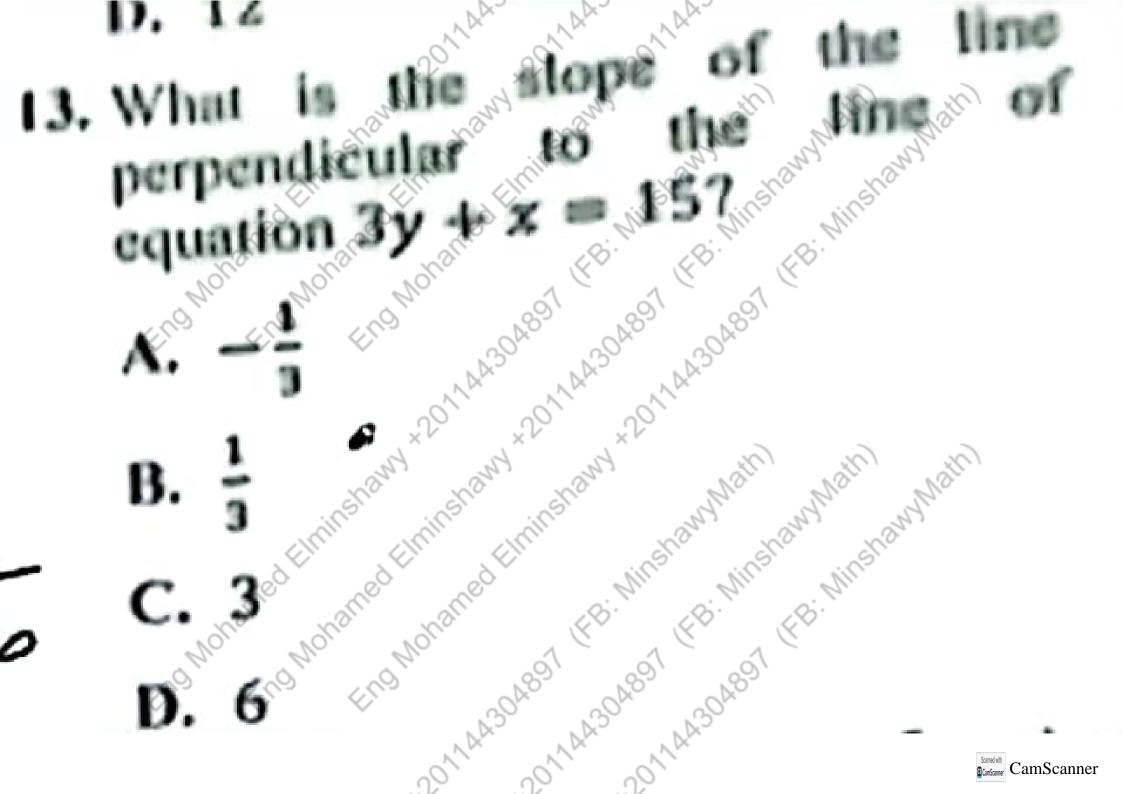
B. 2

C. 14i

D. 2 + 14i and 2 and 2 and 3 and

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b⁹⁶ (Restant 201) AA30A891 (Restant 201) $(xy)^{12}$ $= b^{6}$ b^{8} Eng Mohamed And Erno Mohamed Elminshamy 2011 AA30 AB91 (EB. Minsha ABM) 2011 AA30A891 [FB. Minshawnhath) 2011AA30A89T (FB: MinshawyMath)

- D. b^{132} 15. Given the function g defined by $g(x) = -3x^2 + 6x + 1$, which of
- the following statements is/are true?

 K. The graph of g concaves K

 upwards.

 I. The automatical concaves the concaves of the concave of the conc
 - II. The axis of symmetry graph is at the positive side of the x-axis.

 III. The graph of g reaches
- the x-a.

 III. The graph of the minimum value.

 A. I only

 B. It only

 C. I and III

 D. I. II and III of g SONA AARON (FR. Minchammhath) 2011AA30A89T [FB: Minshawwindais)

16. If
$$f(x) = x^2 - 4$$
, and $g(x) = 3x - 1$,

A. 44

B. 45

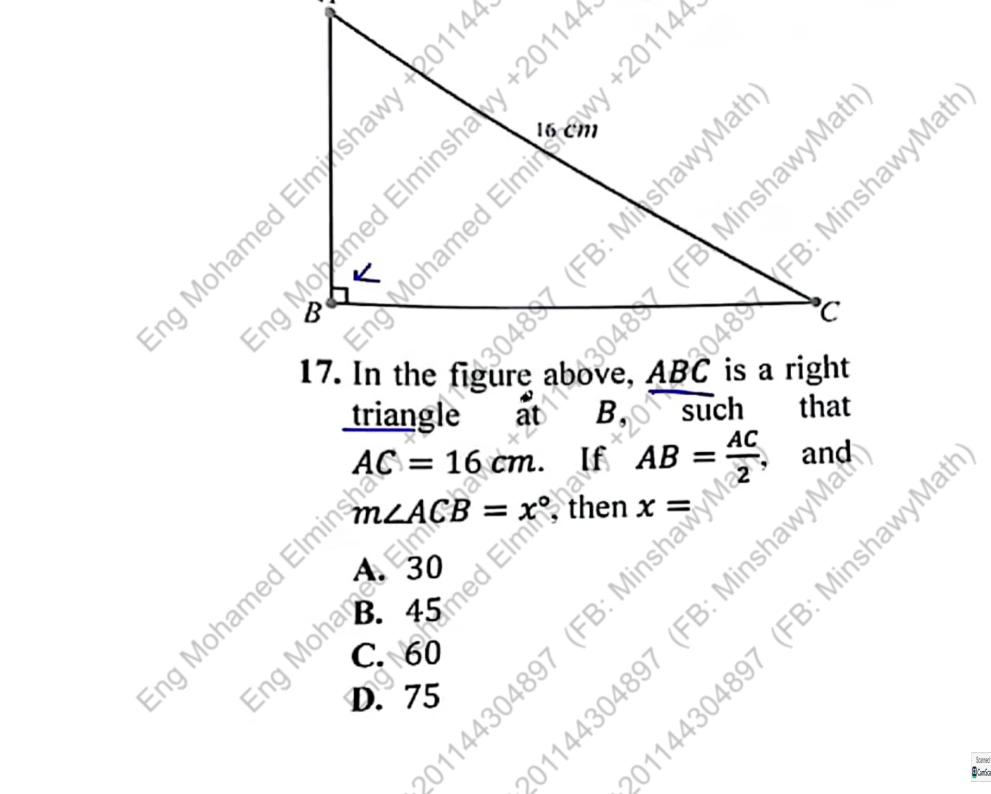
C. 49

D. 53

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$$\begin{cases} x + 2y = -1 \\ 2x = y + 8 \end{cases}$$

 $\begin{cases} x + 2y = -1 \\ 2x = y + 8 \end{cases}$ 18. The value of x that satisfies the system of equations above is:

A. 1
B. 2
C. 3



Signature of the x term in the son of $(2-3x)(x^2+4x+1)$ where x is a solution of $(2-3x)(x^2+4x+1)$ where x is a solution of $(2-3x)(x^2+4x+1)$.

3

B. 5

C. 8

D. 11 Hills of the x term in the solution of x term i

< 4x - 3 ≤ 31
Nonly integer that satisfies the nequality above is:
A. 8
B. 11
C. 28
D. 32
D. 32
D. 32
D. 32
D. 32