



imtiaz
منصة إمتياز التعليمية



Math1 (105)

CHAPTER 2

Solve the following equations:

★ $3(x - 1) + x = -x + 7$

★ $2(x - 4) + 10x = 8 + 4(3x + 1)$



Solve the following equations:

★ $15 - 2y = -4(y + 1) + 9$

★ $3(2x + 1) = 9 - 6(1 - x)$



Solve the following equations:

★ $-5|x - 7| + 2 = -13$

★ $2|x - 3| = -6$



Solve the following equations:

★ $4x^2 + 1 = 8x$

★ $5x^2 - 10x = 0$



Solve the following equations:

★ $4x^2 - 25 = 0$

★ $2x^2 = 6x - 5$



Solve the following equations:

★ $4x - 3 = 5x^2$

★ $x^2 - 6x + 13 = 0$



Solve the following inequalities then graph solution set and write it in interval notation

★ $-2x - 1 < -9$

★ $-5(x + 2) - 3 \geq 3x + 11$



Solve the following inequalities then graph solution set and write it in interval notation

$$\star 5|x - 2| - 7 < 8$$

$$\star 3|3 - 2x| - 1 > 20$$



Solve the following inequalities then graph solution set and write it in interval notation

$$\star |2x + 3| < 1$$

$$\star |2 - x| + 1 \geq 5$$



Solve the following inequalities then graph solution set and write it in interval notation

$$\star \frac{|3x + 2|}{4} \leq 1$$

$$\star -\frac{1}{3}|3 + x| < -2$$



Choose the correct answer

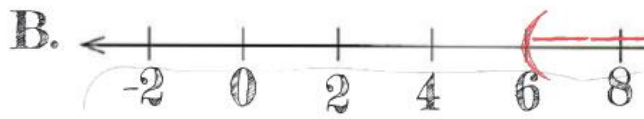
The solution of the equation $3(x + 1) = 15$ is:

- A. 4
- B. 6
- C. 11
- D. 17

The two solutions of the equation $(x - 3)^2 = 25$ are

- A. $x=8$ and $x=-2$
- B. $x=-8$ and $x=2$
- C. $x=8i$ and $x=-2i$
- D. $x=-8i$ and $x=2i$

The graph of inequality solution $15 - 3x \leq -3$ is



The solution of the inequality $|3 - x| \leq 1$

- A. $\infty \leq x \leq -2$ or $-4 \leq x \leq \infty$
- B. $\infty \leq x \leq 2$ or $4 \leq x \leq \infty$
- C. $2 \leq x \leq 4$
- D. $-2 \leq x \leq -4$

The solution of the equation $2|x - 3| = -4$ is:

- A. $\{ 1, 5 \}$
- B. $\{ -1, 1 \}$
- C. \mathbb{R}
- D. \emptyset

The solution of the inequality $|x + 3| \geq 1$

- A. $(-\infty, -4] \cup [-2, \infty)$
- B. $(-\infty, 2] \cup [4, \infty)$
- C. $[-4, -2]$
- D. $[2, 4]$

The solution of the equation $\frac{x-3}{4} = 1$ is:

- A. $x = -7$
- B. $x = -1$
- C. $x = 7$
- D. $x = 4$

The two solutions of the equation $3X^2 - 27 = 0$ are:

- A. $x_1 = -\frac{1}{3}$ and $x_2 = \frac{1}{3}$
- B. $x_1 = -9i$ and $x_2 = 9i$
- C. $x_1 = -3$ and $x_2 = 3$
- D. $x_1 = -3i$ and $x_2 = 3i$



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