

Algebra II Lesson 17 - Solving equations involving absolute value.

1. Solve $|x + 2| \leq 2$. Graph the solution.

conjunction

$$\begin{aligned} -2 &\leq x + 2 \leq 2 \\ -4 &\leq x \leq 0 \end{aligned}$$

2. Solve $|x - 3| = 8$. Graph the solution.

$$\begin{aligned} x - 3 &= -8 \quad \text{or} \quad x - 3 = 8 \\ x &= -5 \quad \text{or} \quad x = 11 \end{aligned}$$

3. Solve $|4x - 8| - 4 = -20$

$$|4x - 8| = -16$$

↑ Neg
#

AbsVal can never
be Neg $\therefore \emptyset$

4. Solve $|2x + 63| = 11x$. Check for extraneous solutions.

$$2x + 63 = -11x$$

$$63 = -13x$$

$$x = \cancel{-\frac{63}{13}} \text{ ER}$$

$$2x + 63 = 11x$$

$$63 = 9x$$

$$\boxed{x = 7}$$

5. Solve $|5x| - 1 \leq 8$.

$$|5x| \leq 9$$

$$-9 \leq 5x \leq 9$$

$$-\frac{9}{5} \leq x \leq \frac{9}{5}$$

6. What are the solutions of $|4x - 2| - 5 \geq 5$?

$$|4x - 2| \geq 10$$

$$4x - 2 \leq -10 \quad \text{or} \quad 4x - 2 \geq 10$$

$$4x \leq -8$$

$$x \leq -2$$

$$4x \geq 12$$

$$x \geq 3$$

7. Solve $2|5x| + 4 \leq 7$.

$$2|5x| \leq 3$$

$$|5x| \leq \frac{3}{2}$$

$$-\frac{3}{2} \leq 5x \leq \frac{3}{2}$$

$$-\frac{3}{10} \leq x \leq \frac{3}{10}$$

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