

Absolute Value Equations and Inequalities

Absolute Value Definition - The absolute value of x , is defined as...

$$|x| = \begin{cases} x, & \text{if } x \geq 0 \\ -x, & \text{if } x < 0 \end{cases} \quad \text{where } x \text{ is called the "argument"}$$

Steps for Solving Linear Absolute Value Equations: *i.e.* $|ax + b| = c$

1. Isolate the absolute value.
2. Identify what the isolated absolute value is set equal to...
 - a. If the absolute value is set **equal to zero**, remove absolute value symbols & solve the equation to get **one solution**.
 - b. If the absolute value is set **equal to a negative** number, there is **no solution**.
 - c. If the absolute value is set **equal to a positive** number, set the argument (*expression within the absolute value*) equal to the number **and** set it equal to the opposite of the number, using an 'or' statement in between the two equations. Then solve each equation separately to get **two solutions**.

Examples:

a. $|3x + 12| + 7 = 7$

$$|3x + 12| = 0$$

Because this equals **0**, there is **ONE** solution.

$$3x + 12 = 0$$

$$3x = -12$$

$$x = -4$$

b. $|3x - 7| + 7 = 2$

$$|3x - 7| = -5$$

Because this equals a **negative** number, there is **NO** solution.

No Solution

c. $|3x - 7| + 7 = 9$

$$|3x - 7| = 2$$

Because this equals a **positive** number there are **TWO** solns.

$$3x - 7 = 2$$

$$3x = 9$$

$$x = 3$$

or $3x - 7 = -2$

or $3x = 5$

or $x = \frac{5}{3}$

d. $|x + 5| = |2x - 1| \rightarrow$

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

$$x = 6$$

Set up **two** Equations

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

or $x + 5 = -2x + 1 \rightarrow 3x = -4 \rightarrow x = -\frac{4}{3}$

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IM Harris



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