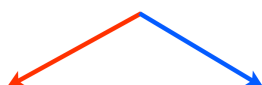
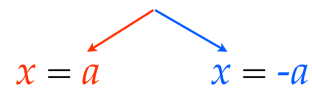


$$|3x - 9| = 12$$


Steps to Solve an Absolute Value Equations

1. Isolate absolute value expression

2. Create two equations

$$|x| = a$$

$$x = a \quad x = -a$$

3. Solve both equations

4. Check both solutions

Solve the following **absolute value** equations:

$$|2x - 5| = 5$$

Solve the following **absolute value** equations:

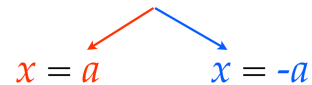
$$3|2x - 11| + 2 = 29$$

Solve the following **absolute value** equations:

$$|x - 3| = 2x + 9$$

Steps to Solve an **Absolute Value** Equations

1. Isolate **absolute value expression**
2. Create **two equations**

$$|x| = a$$


A diagram illustrating the branching of an absolute value equation. A central point has two arrows pointing downwards and outwards. The left arrow is red and points to the equation $x = a$. The right arrow is blue and points to the equation $x = -a$.

$$x = a \quad x = -a$$

3. Solve both equations
4. Check both solutions