# MathFLIX CHALLENGE

## Solving Absolute Value Equations

Absolute value problems always have two solutions. Complete the problems below providing both solutions for each one.

#### Absolute value problem

### Solution #1

#### Solution #2

$$|x + 2| = 7$$

$$x + 2 = 7$$

$$x + 2 = -7$$

$$x + 2 - 2 = 7 - 2$$
  
 $x = 5$ 

$$x + 2 - 2 = -7 - 2$$

$$x = 5, -9$$

$$X = -9$$

$$|x + 3| = 10$$

$$x + 3 = 10$$

$$x + 3 = -10$$

$$X =$$
,

$$|x - 3| = 10$$

$$x - 3 = 10$$

$$|2x + 4| = 12$$

$$2x + 4 = -12$$

$$|3x + 6| = 12$$

$$|-x+2| =$$