

Solving Absolute Value Equations

Step 1: Isolate absolute value expression (|Expression|**) by subtracting any constants, then dividing by any coefficient in front of the absolute value expression.**

Subtract a constant to isolate **|Expression|**

$$| \text{Expression} | + \underline{\quad} = \underline{\quad} X + \underline{\quad}$$
$$\underline{\underline{-\quad}} \qquad \qquad \underline{\underline{-\quad}}$$

$$| \text{Expression} | + 0 = \underline{\quad} X + (\underline{\quad} - \underline{\quad})$$

$$| \text{Expression} | = \underline{\quad} X + \underline{\quad}$$

Continue to next page for scaffold for dividing a constant.

OR Divide by a number to isolate **|Expression|**

$$\underline{\hspace{2cm}} \text{ |Expression| } = \underline{\hspace{2cm}} X + \underline{\hspace{2cm}}$$

$$\frac{\div}{\underline{\hspace{2cm}}}$$

$$\frac{\div}{\underline{\hspace{2cm}}}$$

$$\text{ |Expression| } = \frac{\underline{\hspace{2cm}}}{\underline{\hspace{2cm}}} X + \frac{\underline{\hspace{2cm}}}{\underline{\hspace{2cm}}}$$

$$\text{ |Expression| } = \underline{\hspace{2cm}} X + \underline{\hspace{2cm}}$$