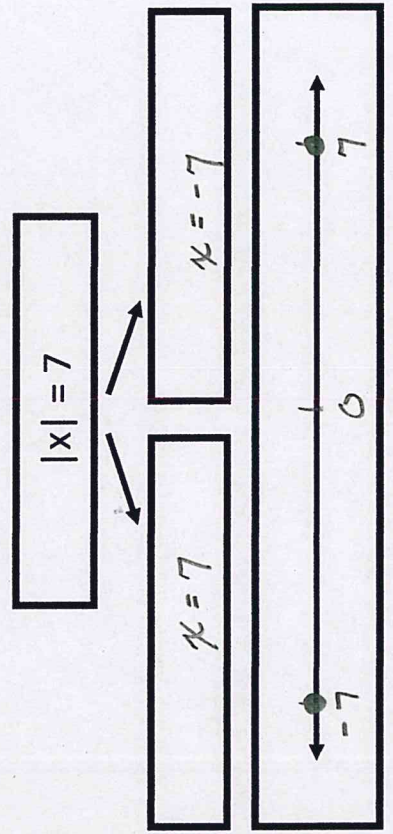
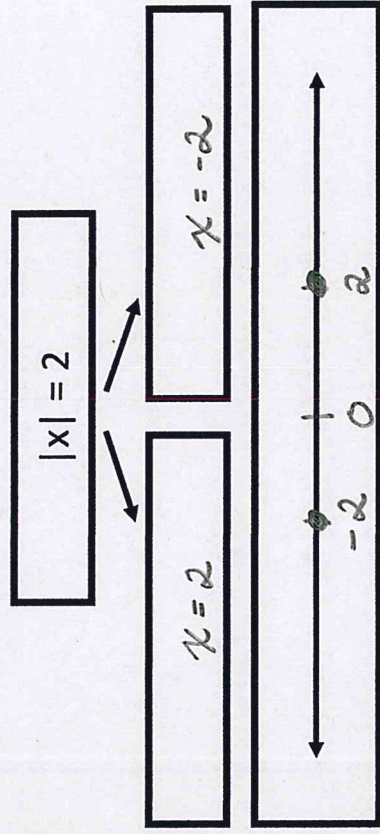
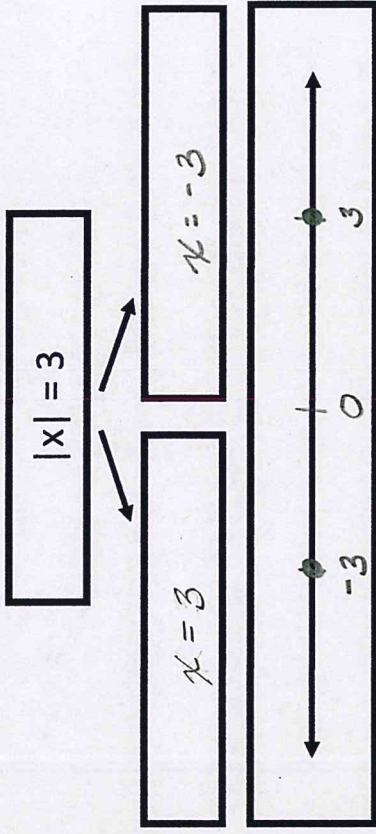


# Absolute Value Equations



Isolate the Absolute Value first!

$$|x-1|=2$$

$$\begin{array}{r} x-1=2 \\ +1 \quad +1 \\ \hline x \quad x=3 \end{array}$$

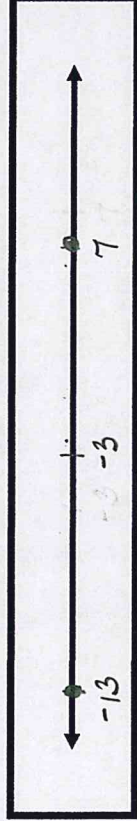
$$\begin{array}{r} x-1=-2 \\ +1 \quad +1 \\ \hline x \quad x=-1 \end{array}$$



$$|x+3|=10$$

$$\begin{array}{r} x+3=10 \\ -3 \quad -3 \\ \hline x \quad x=7 \end{array}$$

$$\begin{array}{r} x+3=-10 \\ -3 \quad -3 \\ \hline x \quad x=-13 \end{array}$$



$$|x-12|=14$$

$$\begin{array}{r} x-12=14 \\ +12 \quad +12 \\ \hline x \quad x=26 \end{array}$$

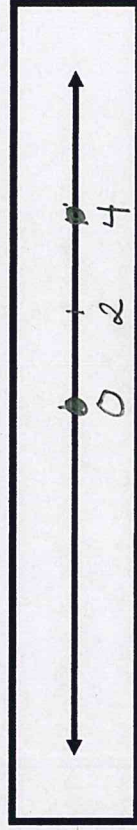
$$\begin{array}{r} x-12=-14 \\ +12 \quad +12 \\ \hline x \quad x=-2 \end{array}$$



$$\begin{array}{r} |x-2|+3=5 \\ -3 \quad -3 \\ \hline |x-2|=2 \end{array}$$

$$\begin{array}{r} x-2=2 \\ +2 \quad +2 \\ \hline x \quad x=4 \end{array}$$

$$\begin{array}{r} x-2=-2 \\ +2 \quad +2 \\ \hline x \quad x=0 \end{array}$$



$$\begin{array}{r} |2x-1|-3=2 \\ +3 \quad +3 \\ \hline |2x-1|=5 \end{array}$$

$$\begin{array}{r} 2x-1=5 \\ +1 \quad +1 \\ \hline 2x \quad 2x=6 \\ \frac{2x}{2} \quad \frac{6}{2} \\ x=3 \end{array}$$

$$\begin{array}{r} 2x-1=-5 \\ +1 \quad +1 \\ \hline 2x \quad 2x=-4 \\ \frac{2x}{2} \quad \frac{-4}{2} \\ x=-2 \end{array}$$

