

Name: _____

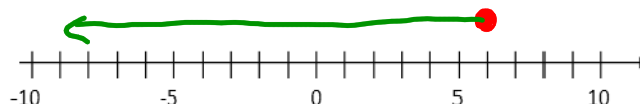
Date: _____

**SOLVING LINEAR INEQUALITIES
HOMEWORK**

1. Solve the inequality using the properties of inequality and graph the final solution set on the number line provided.

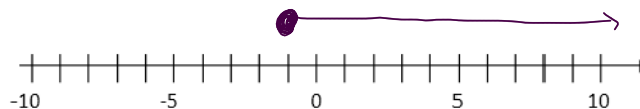
(a) $5x - 6 \leq 24$

$$\begin{aligned} & \underline{+6} \quad \underline{+6} \\ 5x & \leq 30 \\ \frac{5x}{5} & \leq \frac{30}{5} \\ x & \leq 6 \end{aligned}$$



(b) $2(5 - x) \leq 12$

$$\begin{aligned} & \text{↻} \\ 10 - 2x & \leq 12 \\ \underline{-10} \quad \underline{-10} & \\ -2x & \leq 2 \\ \underline{-2} \quad \underline{-2} & \\ x & \geq -1 \end{aligned}$$



(c) $6 - 4x > 18$

$$\begin{aligned} \underline{-6} \quad \underline{-6} & \\ -4x & > 12 \\ \underline{-4} \quad \underline{-4} & \\ x & < -3 \end{aligned}$$

