

Extra practice 6.7

$$1) |-4| = 4$$

$$4) |1-5| = |-4| = 4$$

$$9) a) \quad | \# | = 7 \quad 7 \& -7$$

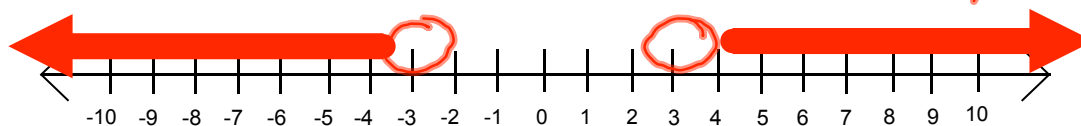
$$9) c) \quad |x - 5| = 7$$

$$\begin{array}{r} x - 5 = 7 \\ + 5 \quad + 5 \\ \hline x = 12 \end{array}$$

$$\begin{array}{r} x - 5 = -7 \\ + 5 \quad + 5 \\ \hline x = -2 \end{array}$$

$$x = 12, -2$$

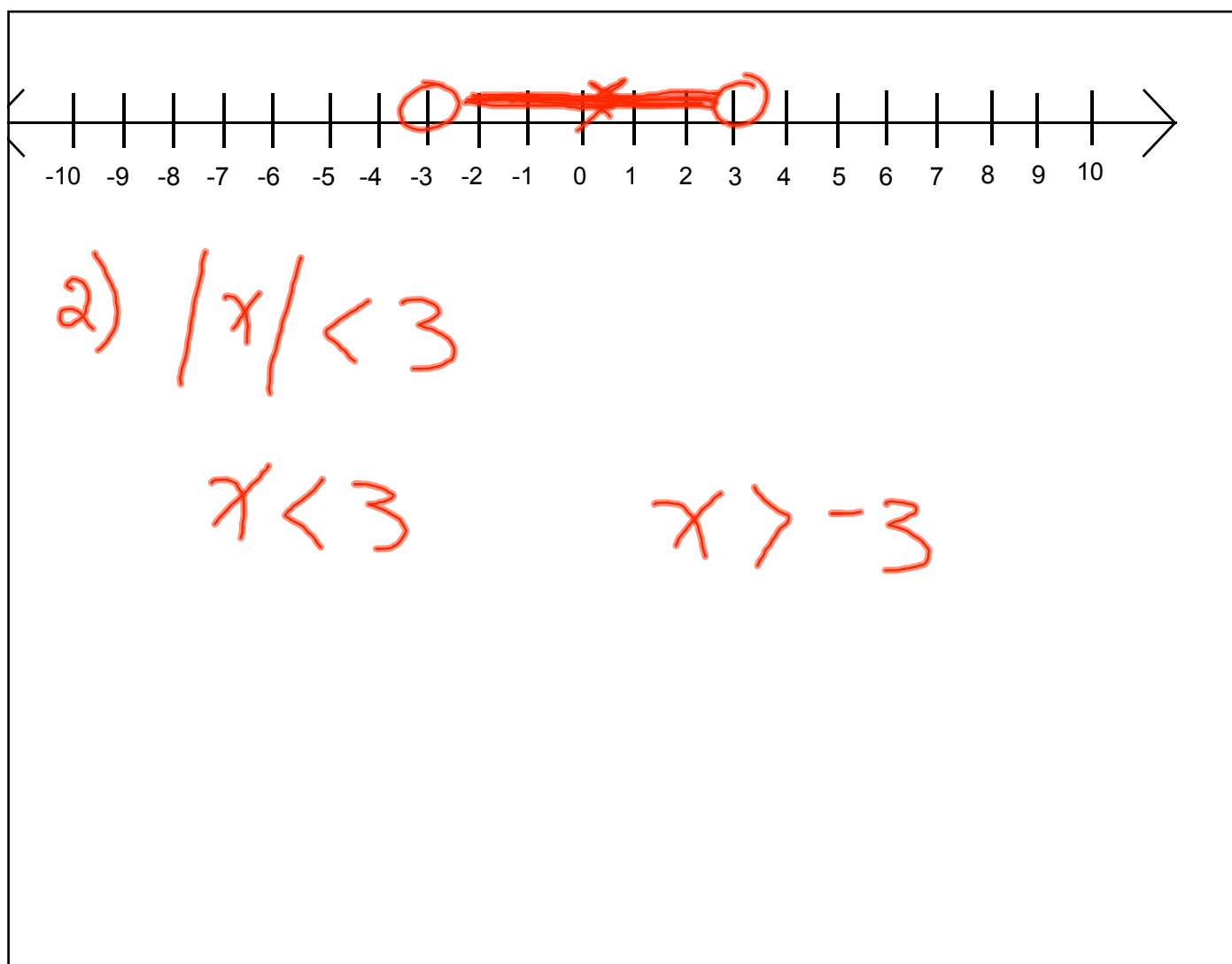
Enrichment 6.7

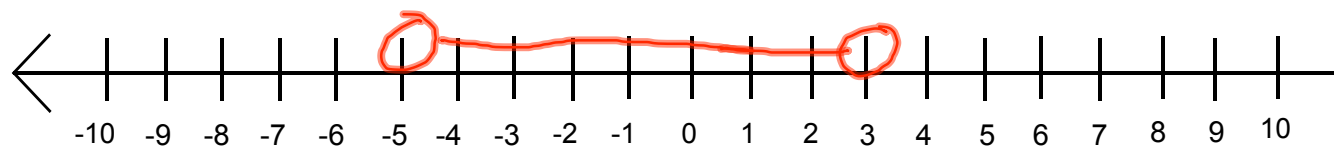


$$1) |x| > 3$$

$$x > 3$$

$$x < -3$$

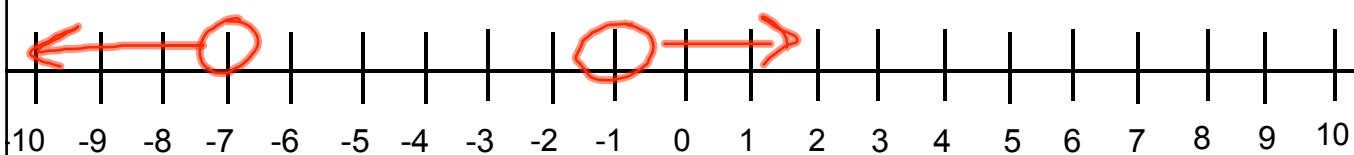




$$3) |x+1| < 4$$

$$\begin{array}{r} x+1 < 4 \\ -1 \quad -1 \\ \hline x < 3 \end{array}$$

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



$$5) |x + 4| > 3$$

$$\begin{array}{r} x + 4 > 3 \\ -4 \quad -4 \\ \hline x > -1 \end{array}$$

$$\begin{array}{r} x + 4 < -3 \\ -4 \quad -4 \\ \hline x < -7 \end{array}$$

$$6) |x-1| \leq 5$$

$$x-1 \leq 5 \quad x-1 \geq -5$$

now graph  
this

$$7) |x+3| \geq 0$$

$$\begin{array}{r} x+3 \geq 0 \\ -3 \quad -3 \\ \hline x \geq -3 \end{array}$$

$$\begin{array}{r} x+3 \leq 0 \\ -3 \quad -3 \\ \hline x \leq -3 \end{array}$$

