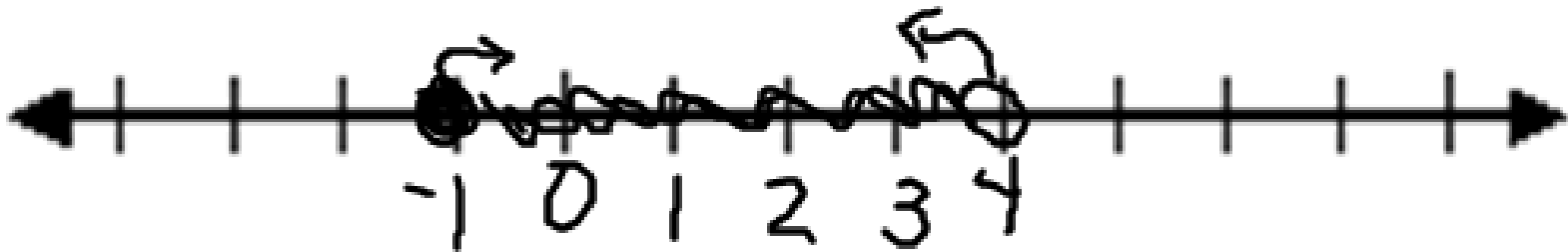


Quiz Review

6 - 4 through 6 - 6

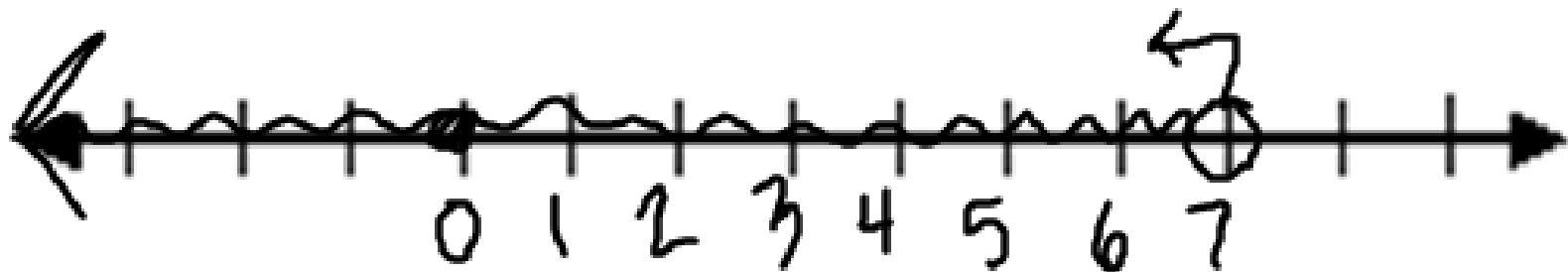
Graph the solution set of each compound inequality.

1. $p < 4$ and $p \geq -1$



Graph the solution set of each compound inequality.

2. $x < 7$ or $x \leq 0$



Graph the solution set of each compound inequality.

3. $m > 6$ or $m < 6$



Solve each compound inequality.

$$4. \quad k - \cancel{3} < -7 \quad \text{or} \quad k + \cancel{5} \geq 8$$

$\quad \quad \quad +3 \quad \quad \quad \quad \quad \quad -5$

$$k < -4 \quad \text{or} \quad k \geq 3$$

Solve each compound inequality.

$$5. \quad 2c - \cancel{4} > \underset{+4}{-6} \quad \text{and} \quad 3c + \cancel{1} < \underset{-1}{13}$$

$$\frac{\cancel{2}c}{2} > \frac{-2}{2}$$

$$\frac{\cancel{3}c}{3} < \frac{12}{3}$$

$$c > -1 \quad \text{and} \quad c < 4$$

Solve each open sentence. Then graph the solution set.

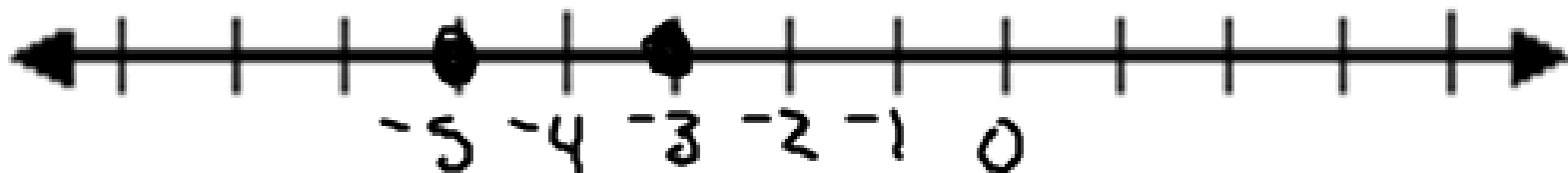
6. $|x + 4| = 1$

$$\begin{array}{r} x + 4 = 1 \\ \underline{-4} \quad \underline{-4} \end{array}$$

$$x = -3$$

$$\begin{array}{r} x + 4 = -1 \\ \underline{-4} \quad \underline{-4} \end{array}$$

$$x = -5$$



Solve each open sentence. Then graph the solution set.

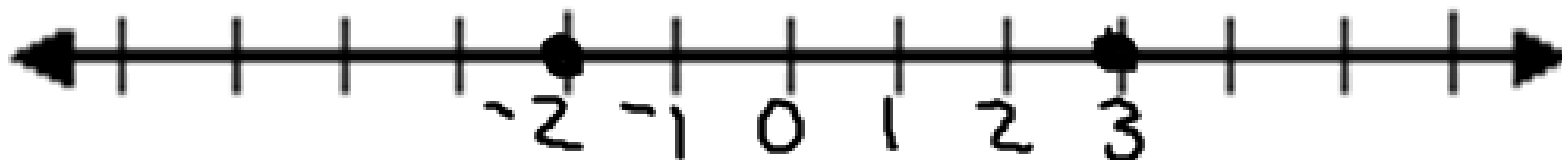
7. $|4y - 2| = 10$

$$\begin{array}{r} 4y - 2 = 10 \\ +2 \quad +2 \end{array}$$

$$\begin{array}{r} 4y - 2 = -10 \\ +2 \quad +2 \end{array}$$

$$\begin{array}{r} 4y = 12 \\ \hline y = 3 \end{array}$$

$$\begin{array}{r} 4y = -8 \\ \hline y = -2 \end{array}$$



**Solve each open sentence.
(No graphing.)**

8. $|2d - 1| \leq 5$

$$\begin{array}{r} 2d - 1 \leq 5 \\ +1 \quad +1 \end{array}$$

$$\begin{array}{r} 2d \leq 6 \\ \cancel{2} \quad \cancel{2} \end{array}$$

$$d \leq 3$$

$$\begin{array}{r} 2d - 1 \geq -5 \\ +1 \quad +1 \end{array}$$

$$\begin{array}{r} 2d \geq -4 \\ \cancel{2} \quad \cancel{2} \end{array}$$

$$d \geq -2$$

**Solve each open sentence.
(No graphing.)**

9. $|3x + 2| > 7$

$$3x + 2 > 7$$

$\quad -2 \quad -2$

$$\cancel{3}x > \cancel{5}$$

$\quad 3 \quad 3$

$x > \frac{5}{3}$

$$3x + 2 < -7$$

$\quad -2 \quad -2$

$$\cancel{3}x < \cancel{-9}$$

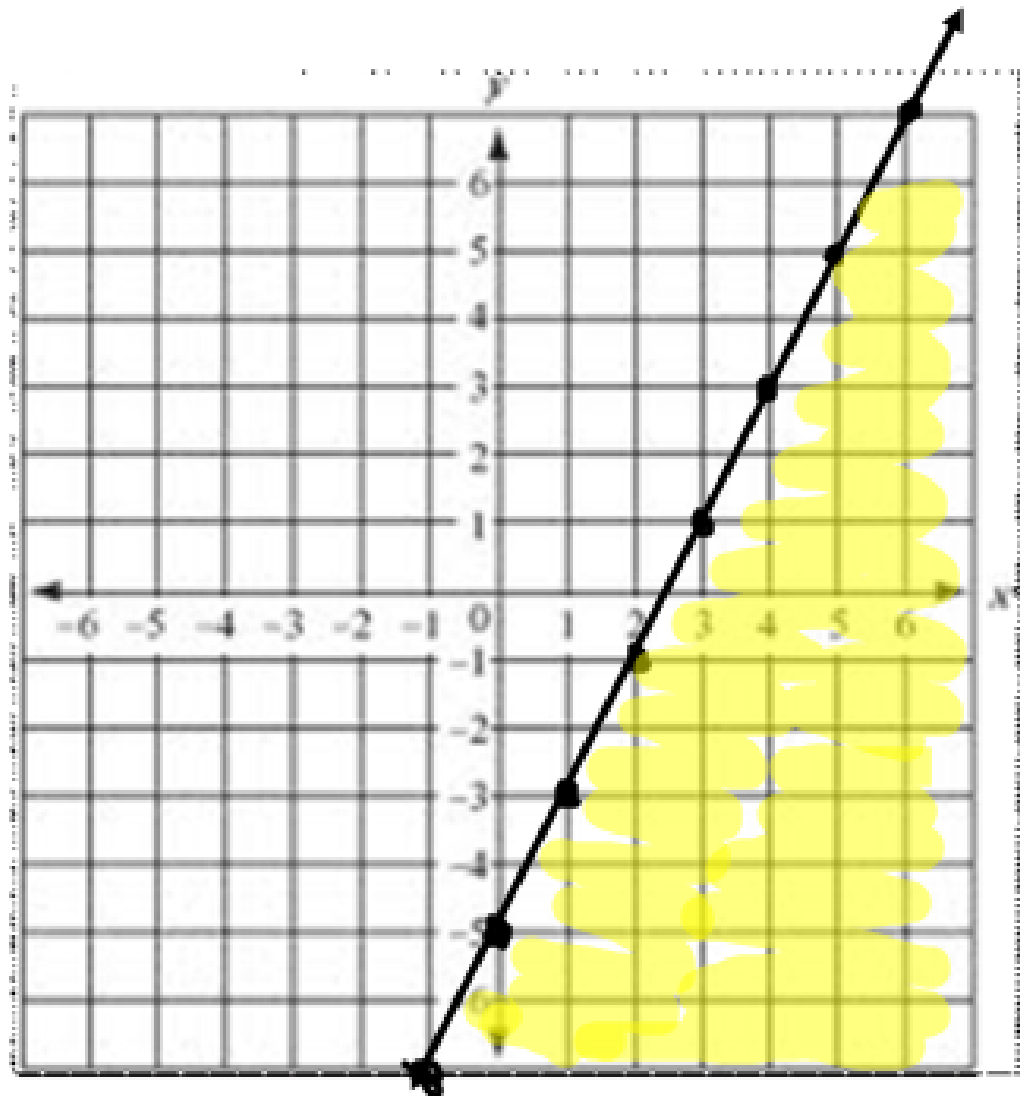
$\quad 3 \quad 3$

$x < -3$

10. For the set
 $\{ \cancel{(2, -3)}, \cancel{(-2, -1)}, (1, 6), \cancel{(3, 4)} \}$,
determine which ordered pairs
are part of the solution set of
 $y \geq x + 3$.

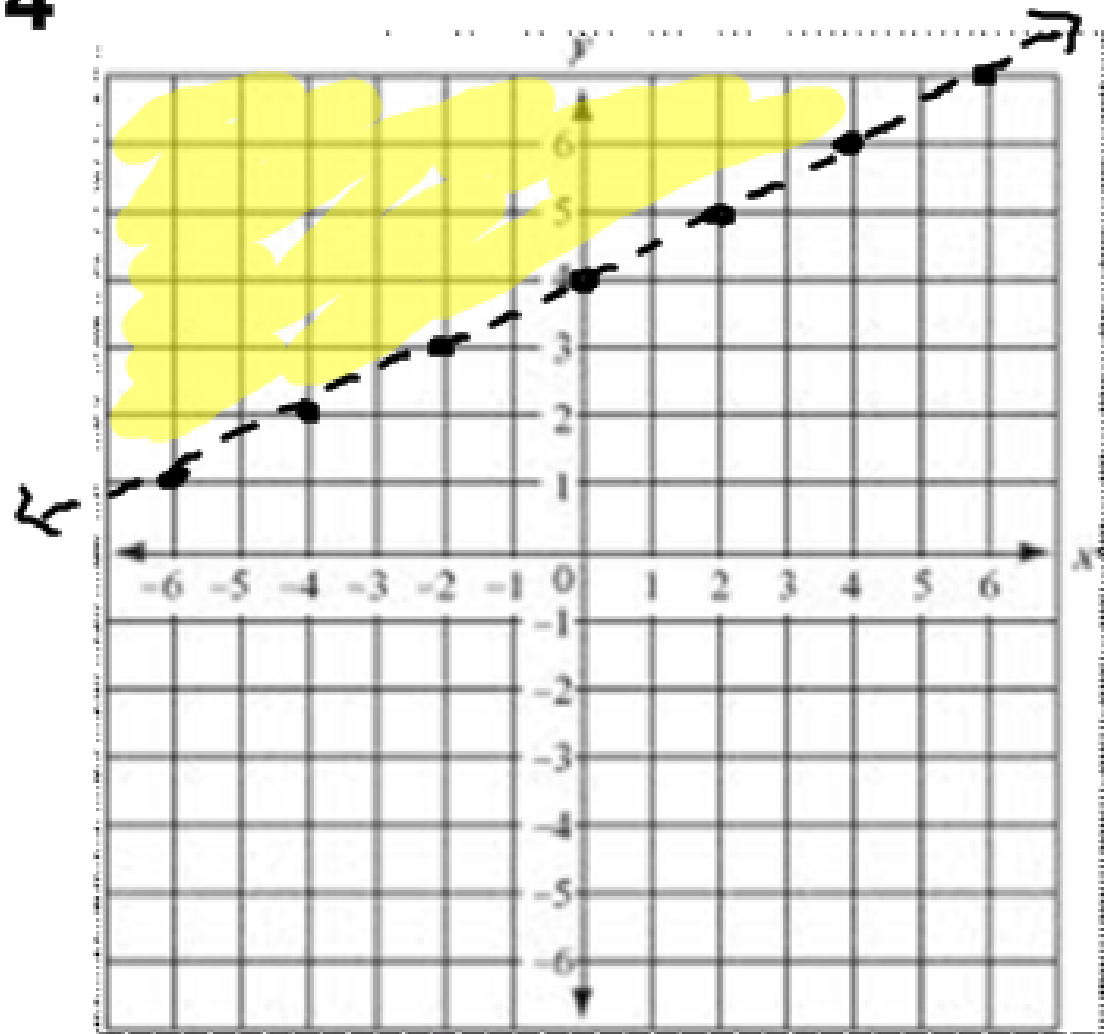
Graph each inequality.

11. $y \leq \underline{2x} - 5$

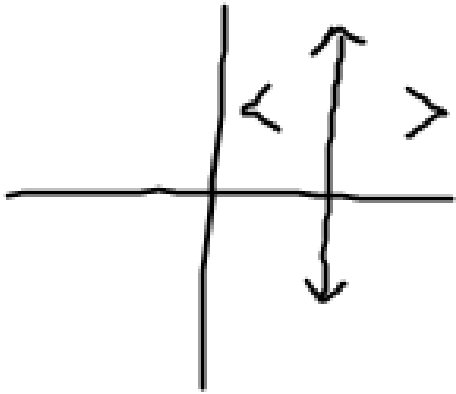


Graph each inequality.

12. $y > \frac{1}{2}x + 4$



$$x = 4$$



$$y = 4$$

