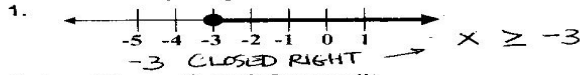


Write the inequality shown by the graph.



Solve. Show all work for credit.

2.
$$x + \frac{2}{7} \geq \frac{6}{7}$$

$$\frac{-\frac{2}{7}}{-\frac{2}{7}} \frac{\frac{6}{7}}{-\frac{2}{7}}$$

$$x \geq \frac{4}{7}$$

4.
$$\frac{p}{2} < 60 - 2$$

$$p < 120$$

6.
$$z + 7 + 4z \leq -3$$

$$5z + 7 \leq -3$$

$$\frac{5z}{5} \leq \frac{-10}{5}$$

$$z \leq -2$$

8.
$$5 \cdot \frac{7x+1}{5} \geq 10 - 5$$

$$\frac{7x+1}{1} \geq \frac{5}{1}$$

$$7x + 1 \geq 5$$

$$\frac{7x}{7} \geq \frac{4}{7}$$

$$x \geq \frac{4}{7}$$

9.
$$7x - 1 < 4x + 11$$

$$-4x + 1 - 4x + 1$$

$$\frac{3x}{3} < \frac{12}{3}$$

$$x < 4$$

BONUS: Solve the compound inequality and graph.

$$5 < 3x - 1 \leq 11$$

$$+1 \quad +1 \quad +1$$

$$6 < 3x \leq 12$$

$$\frac{6}{3} < \frac{3x}{3} \leq \frac{12}{3}$$

$$2 < x \leq 4$$

3.
$$\frac{-4z}{-4} \geq \frac{12}{-4}$$

$$z \leq -3$$

÷ by neg change direction

5.
$$-3y - 8 > -2$$

$$\frac{-3y}{-3} > \frac{6}{-3}$$

$$y < -2$$

change direction

7.
$$4(x+2) < 16$$

$$4x + 8 < 16$$

$$\frac{4x}{4} < \frac{8}{4}$$

$$x < 2$$

10.
$$2(k-1) > 5 + 3k$$

$$2k - 2 > 5 + 3k$$

$$-3k + 2 \quad +2 \quad -3k$$

$$\frac{-k}{-1} > \frac{7}{-1}$$

$$k < -7$$

Part A

Answers	
1)	$x \geq -3$
2)	$x > \frac{4}{7}$
3)	$z \leq -3$
4)	$p < 120$
5)	$y < -2$
6)	$z \leq -2$
7)	$x < 2$
8)	$x \geq 7$
9)	$x < 4$
10)	$k < -7$
Bonus Answer: $2 < x \leq 4$	
Bonus Graph: 	