

Warm-Up

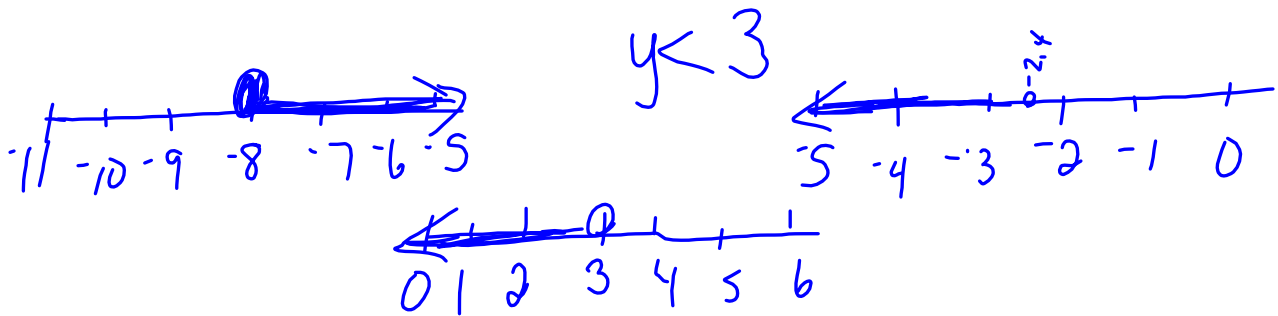
February 19, 2019

Graph the following:

A) $x \geq -8$

B) $3 > y$

C) $r < -2.4$



Section 6.4 Solving Inequalities using addition and subtraction...

What you already know

$$x - 4.5 = 6.2$$

$$x \boxed{+ 4.5 + 4.5} = 6.2 + 4.5$$

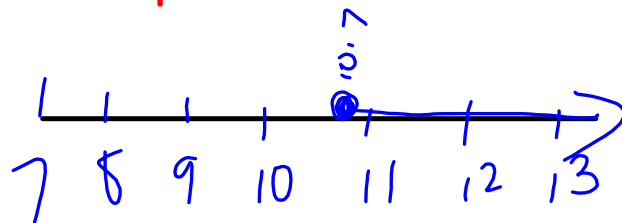
$$x = 10.7$$

$$x - 4.5 \geq 6.2$$

$$x \boxed{+ 4.5 + 4.5} \geq 6.2 + 4.5$$

$$x \geq 10.7$$

Graph



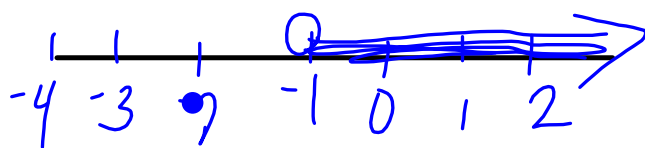
$$a + 4 > 3$$

$$a + \boxed{4 - 4} > 3 - 4$$

$$a > -1$$

A. Solve

B. Graph



Rewrite with variable on left side

$$13 \leq 4 + x$$

$$4 + x \geq 13$$

$$\text{or}$$
$$x + 4 \geq 13$$

$$13 < x - 4$$

$$x - 4 > 13$$

$$\text{or}$$
$$-4 + x > 13$$

$$90 + 5d < 100 + 4d$$

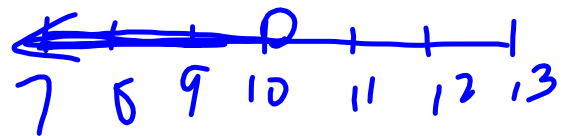
- A. Solve
- B. Graph

$$90 + 5d - 4d < 100 + \boxed{4d - 4d}$$

$$90 + 1d < 100$$

$$\boxed{90 - 90} + 1d < 100 - 90$$

$$1d < 10$$



$$7t - 4 > 3t + 12$$

$$7t - 3t - 4 > \boxed{3t - 3t} + 12$$

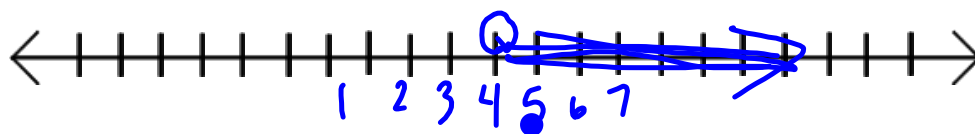
- Solve
- Graph

$$4t - 4 > 12$$

$$4t \boxed{-4+4} > 12 + 4$$

$$\frac{4t}{4} > \frac{16}{4}$$

$$t > 4$$



$$\overset{(12)}{\frac{x}{4}} + \overset{(12)}{\frac{2}{3}} < \overset{(12)}{\frac{5}{6}} + \overset{(12)}{2} \quad LCM=12$$

$$\frac{12x}{4} + \frac{24}{3} < \frac{60}{6} + 24$$

$$3x + 8 < 10 + 24$$

$$3x + 8 < 34$$

$$3x \boxed{+8-8} < 34-8$$

$$\frac{3x}{3} < \frac{26}{3}$$

$$x < \frac{26}{3}$$

$$x < 8\frac{2}{3}$$

8.6

1. Inequality check...pass in.

2. Textbook page 298

8 [solve then graph]

#9 [solve then graph]

Answers
Pg 516

3. Worksheet 6, 12, 18, 19 20-31
 32, 34, 35
 36, 37
 ↑ Write on sheet