NAME: _____

REVIEW 2 – SOLVING

DATE: _____

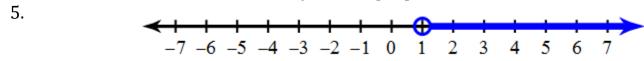
ALGEBRA 1A

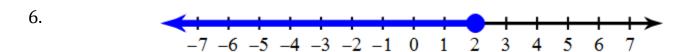
Short Answer.

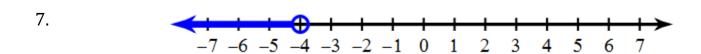
- 1. What operation would be the first one eliminated when solving the following equation: -5x + 3 = 23
- 2. Write a ratio in simplest form comparing 45 minutes with 3 hours.

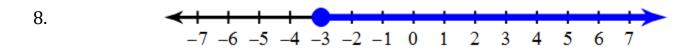
- 3. Camp Algebra stocked 310 pounds of food for 80 people. Determine the pounds of food per person at the camp.
- 4. At a school, the ratio of boys to girls to teachers is 250 to 225 to 85. What is the ratio of boys to teachers in simplest form?

Write the correct interval notation for each graph.









Solve for x. 9. 7 = 3x - 8

9.
$$7 = 3x - 8$$

10.
$$8x + 2x - 15 = 45$$

11.
$$\frac{x}{2} + \frac{x}{3} - \frac{x}{4} = 21$$

12.
$$7dx - 2d = 3dx + 6d$$

13.
$$5(x+2) = 6 + 3(2x-1)$$

14.
$$5x - (x + 3) = 7 + 2(x + 2)$$

15.
$$ax - m = 2m - 10$$

$$16. \ \frac{3x-5}{2} = \frac{5x+1}{4}$$

Solve the inequalities and graph the solution set.

17.
$$6 - 3x \le -9$$

18.
$$-3 < x - 1 \le 2$$

19.
$$(-5 + x \le -4)$$
 or $(x \le 4)$

19.
$$(-5 + x \le -4)$$
 or $(x \le 4)$ 20. $(-6b \le 60)$ and $(b - 5 < -7)$

Identify the property used at each step in the following solution.

21. $\frac{x}{3} + 7 = 9$

 $\frac{x}{3} + 7 - 7 = 9 - 7$

 $\frac{x}{3} + 0 = 9 - 7$

 $\frac{x}{3} = 9 - 7$

 $\frac{x}{3} = 2$

 $\frac{x}{3}(3) = 2(3)$

x(1) = 2(3)

x = 2(3) _____

x = 6