Name:			

Basic Skills Solving Compound Inequalities

Date:

Solve the inequality and graph the solution.

1.
$$0 \le x + 9 < 17$$

2.
$$-14 < 7x < 21$$

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 3. $x - 4 < -12$ or $2x \ge 12$

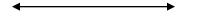
4.
$$-13 \le 5 - 2x < 9$$

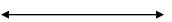
$$5. -22 > 11x \text{ or } 4 + x > 4$$

6.
$$2x + 1 > 13 \text{ or } -18 > 7x + 3$$
 $7. -3 \le 2x + 1 < 9$ 8. $1 \le 3x \le 6$

$$7. -3 \le 2x + 1 < 9$$

8.
$$1 < 3x < 6$$







10.
$$3x - 6 \le 0$$
 or $4x + 5 \ge -3$

11.
$$7 < 1 - x < 13$$





12. On Pennsylvania's interstate highway the speed limit is 65 mph. The minimum speed limit is 45 mph. Write a compound inequality that represents the speeds at which you may legally drive.