EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder Part D – Systems of Equations and Inequalities Lesson 2 – Compound Sentences with "or"

Find the solution set for each of the following compound sentences (systems) and show those solution sets both on a number line and in set notation.

1.
$$x+9 < 5$$
 or $4x > 12$

2.
$$m-8 < 2$$
 or $6m > -18$

3.
$$3n \ge n + 6$$
 or $0 \ge n + 4$

4.
$$3x+11>2 \text{ or } 8-x>4$$

5.
$$5x + 12 < 2$$
 or $5x - 12 < -3$

6
$$3-4x \le 11$$
 and $19 \ge 7-2x$

7.
$$2t-7 < 5t+8 \text{ or } 8-2t > 0$$

8.
$$14-3x < 2 \text{ or } 5-4x > 17$$

9.
$$4y+6 < -10 \text{ or } 2y+5 > 9-2y$$

10.
$$3p+11 \le 20 \text{ or } -4p \ge 20$$

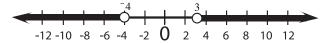
EXTRA PRACTICE — Answer Key

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Unit II – First Degree Relations with One Placeholder Part D – Systems of Equations and Inequalities Lesson 2 – Compound Sentences with "or"

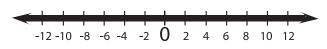
Find the solution set for each of the following compound sentences (systems) and show those solution sets both on a number line and in set notation.

1.
$$S = \{ x \mid x < ^-4 \text{ or } x > 3 \}$$

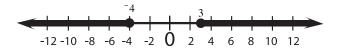


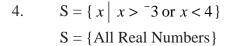
2.
$$S = \{ m \mid m < 10 \text{ or } m > 5 \}$$

 $S = \{ All \text{ Real Numbers} \}$



3.
$$S = \{ n \mid n \ge 3 \text{ or } n \le 4 \}$$

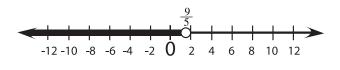


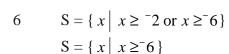




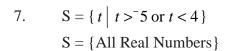
5.
$$S = \{ x \mid x < ^{-}2 \text{ or } x < \frac{9}{5} \}$$

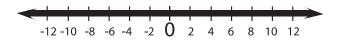
 $S = \{ x \mid x < \frac{9}{5} \}$



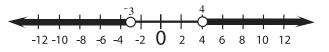


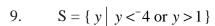


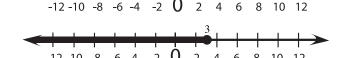












10.
$$S = \{ p \mid p \le 3 \text{ or } p \le -5 \}$$

 $S = \{ p \mid p \le 3 \}$

