EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder Part D – Systems of Equations and Inequalities Lesson 1 – Compound Sentences with "and"

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. $-2 \le 3x + 10$ and 5 > 2x 3
- 2. $7 6x \le 19$ and $19 5x \le 4$
- 3. x + 5 > 8 and 7x < 14
- 4. $1 \le 6 5x < 16$
- 5. $2m + 2(3m 6) \le 40$ and m > 0 and 0 < 3m 6
- $6 \qquad 3x 10 < 5x + 2 < 3x + 4$
- 7. 18 < 5t + 6 < 50 and *t* is an even integer

8. $^{-}0.7 \le 3x - 4.3 \le 8$

9. 8 < 4x - 7 < 22 and x is an odd integer

10. 4x + 2(6x - 8) < 100 and x > 0 and 4x + 8 > 0

EXTRA PRACTICE — Answer Key

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