EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder Part D – Systems of Equations and Inequalities Lesson 4 – Absolute Value Less Than a Positive Number (and)

Find the solution set for each of the following absolute value relations and show the solution set on a number line and in set notation.

- 1. $|3m| \leq 12$
- $2. \qquad |4y-2| \le 10$
- $3. \qquad |4t+6| \le 14$
- $4. \qquad \left| \begin{array}{c} -5 7x \end{array} \right| \le 30$
- 5. $3|x+1| \le 18$
- $6 \qquad 7 |3 2x| \ge 5$
- $7. \qquad \frac{2}{5} \left| y+3 \right| < 9$
- 8. $|m+5|+19 \le 16$
- $9. \qquad \left|\frac{2}{3} 4x\right| \le \frac{4}{5}$

10.
$$\left|\frac{5-3v}{2}\right| < 4$$

EXTRA PRACTICE — Answer Key

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Find the solution set for each of the following absolute value relations and show the solution set on a number line and in set notation.

1.
$$S = \{m \mid \neg 4 \le m \le 4\}$$

2. $S = \{y \mid y \ge 2$ and $y \le 3\}$
3. $S = \{t \mid t \ge 5$ and $t \le 2\}$
4. $S = \{x \mid x \le \frac{25}{7} \text{ and } x \ge 5\}$
5. $S = \{x \mid x \ge 7 \text{ and } x \ge 5\}$
5. $S = \{x \mid x \ge 7 \text{ and } x \ge 5\}$
5. $S = \{x \mid x \ge 7 \text{ and } x \ge 1\}$
6. $S = \{x \mid x \le \frac{5}{2} \text{ and } x \ge \frac{1}{2}\}$
7. $S = \{y \mid y \ge \frac{-51}{2} \text{ and } y < \frac{39}{2}\}$
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7. $S = \{x \mid x \le \frac{11}{30} \text{ and } x > \frac{1}{30}\}$
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7. $S = \{x \mid x$