EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder Part D – Systems of Equations and Inequalities Lesson 3 – Absolute Value Equal to a Positive Number (or)

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. $-4 \mid 4y + 5 \mid = -68$
- 2. |2.5 x 8| = 10
- 3. 13 + |4 7x| = 5
- 4. 2 | x + (x+2) | = 23
- 5. 2 | 2 x 7 | + 11 = 25

$$6. \qquad \left| \frac{4-5x}{2} \right| = 7$$

- 7. |7x-2| = x+4
- 8*. |5p+7| = |4p+3|
- $9^*. \qquad \left| \frac{6-8x}{5} \right| = \left| \frac{7+3x}{2} \right|$

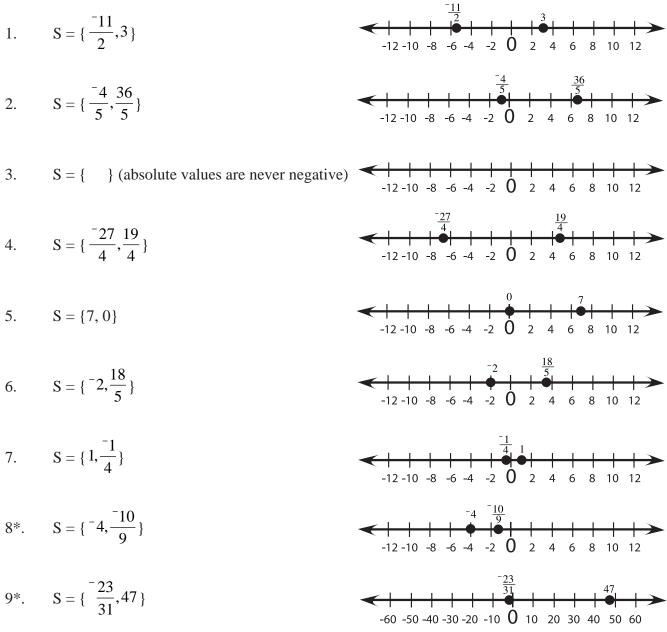
* Note: Sometimes equations have two absolute value expressions. For example, if |a| = |b|, then a and b are the same distance from zero. And, if a and b are the same distance from zero, then they are either the same number or they are opposites of each other. (i.e., a = b or a = -b) Rev1_21_04

EXTRA PRACTICE — Answer Key

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