

EXTRA PRACTICE — Exercises

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Unit III – First Degree Relations with Two Placeholders Part C – Finding Relations For Given Solution Sets **Lesson 3 – Given Two Solutions**

Find a relation for each of the following in the form $y = mx + b$ which has a solution set line determined by the two given solutions. Then rewrite the relation, if necessary, to use only integer coefficients.

1. Two points on the line are: (3, 2) and (6, 5)
2. Two solutions are: (-6, 2) and (-4, 6)
3. Two solutions are: (-4, 3) and (-2, 9)
4. Two points on the line are: (2, 3) and (5, 6)
5. Two points on the line are: (-1, 3) and (-7, 5)
6. Two solutions are: (-2, 1) and (-6, 2)
7. Two solutions are: (-1, -9) and (-5, -1)
8. The equation of the line is satisfied by: (2, -3) and (5, 1)
9. Two solutions are: (1, 2) and (-3, 5)
10. The line passes through the following two points: (-3, -8) and (-5, -2)

EXTRA PRACTICE — Answer Key

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Find a relation for each of the following in the form $y = mx + b$ which has a solution set line determined by the two given solutions. Then rewrite the relation, if necessary, to use only integer coefficients.

1. $y = x - 1$

2. $y = 2x + 14$

3. $y = 3x + 15$

4. $y = x + 1$

5. $3y = -x + 8$

6. $4y = -x + 2$

7. $y = -2x - 11$

8. $3y = 4x - 17$

9. $4y = -3x + 11$

10. $y = -3x - 17$