

EXTRA PRACTICE — Exercises

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Unit III – First Degree Relations with Two Placeholders

Part C – Finding Relations For Given Solution Sets

Lesson 1 – Given the Slope and y-Intercept

Find a relation in the form $y = mx + b$ which has a solution set line with the slope and y-intercept as given in each of the following. Then rewrite the relation, if necessary, to use only integer coefficients.

1. Slope is $\frac{3}{4}$, y-intercept is -2

2. Slope is 1, y-intercept is 3

3. $m = \frac{5}{3}$, y-intercept is 0

4. $m = \frac{-3}{8}$, $b = 1$

5. Slope is 0, y-intercept is 0

6. $m = \frac{1}{7}$, $b = -3$

7. Slope is $\frac{-2}{5}$, y-intercept is -3

8. Slope is $\frac{5}{4}$, y-intercept is $\frac{2}{3}$

9. $m = -1$, $b = -1$

10. $m = -3$, $b = \frac{4}{3}$

EXTRA PRACTICE — Answer Key

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Find a relation in the form $y = mx + b$ which has a solution set line with the slope and y-intercept as given in each of the following. Then rewrite the relation, if necessary, to use only integer coefficients.

1. $4y = 3x - 8$

2. $y = x + 3$

3. $3y = 5x$

4. $8y = -3x + 8$

5. $y = 0$

6. $7y = x - 21$

7. $5y = -2x - 15$

8. $12y = 15x + 8$

9. $y = -x - 1$

10. $3y = -9x + 4$