EXTRA PRACTICE — Exercises

Unit III – First Degree Relations with Two Placeholders
Part A – Solution Set for One Open Sentence
Lesson 5 – Graphing Techniques for $y = mx + b$

Graph the solution set for each of the following equations by finding individual solutions, and then answer the questions as indicated.

1. $y = \dfrac{1}{2}x + 4$

a. Where does the solution set line cross the y-axis?

b. What is the slope of the line?

2. $y = \dfrac{-3}{5}x + 3$

a. Where does the solution set line cross the y-axis?

b. What is the slope of the line?

Graph the solution set for each of the following equations by using the $(0, b)$ point and the slope.

3. $4x - 2y = {}^-10$ 4. $5y = 3x - 10$ 5. $3x - 2y = 6$

6. $3y - 2x = 6$ 7. $2x - 3y = {}^-9$ 8. $3x - 5y = 15$
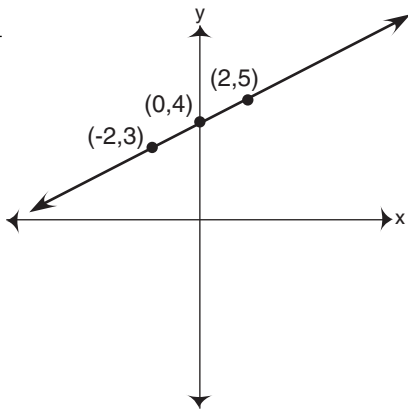
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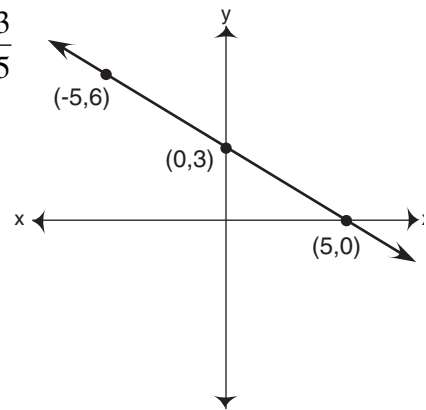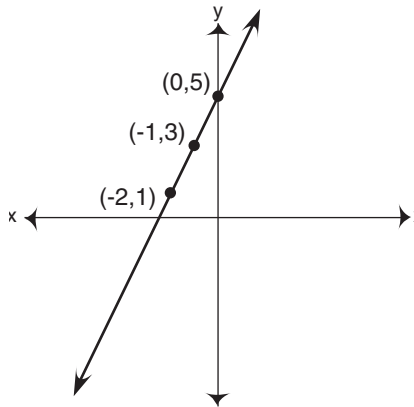
1. a. (0,4)

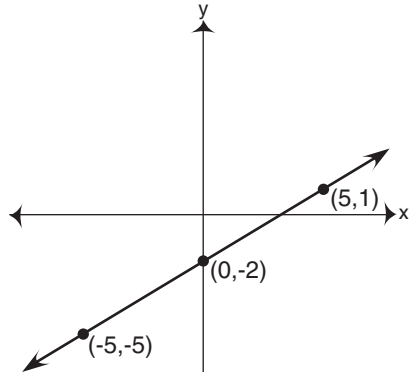   b. $\dfrac{1}{2}$

2. a. (0,3)

   b. $\dfrac{^-3}{5}$

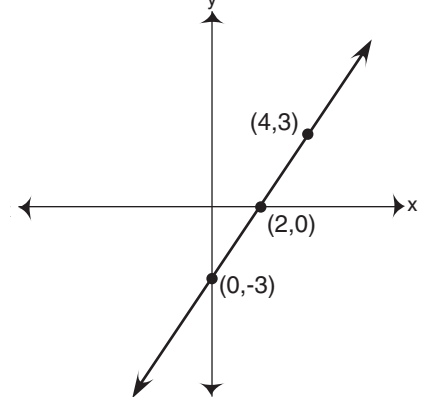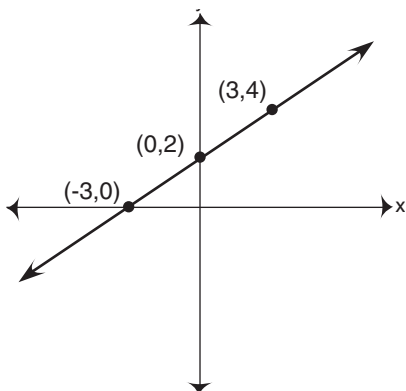Graph the solution set for each of the following equations by using the (0, b) point and the slope.

3.

4.

5.

6.

7.

8.