Name _____ Class _____ Date _____

Reteaching 5-3

Standard Form

OBJECTIVE: Graphing equations using x- and y-intercepts

MATERIALS: Small self-stick removable notes

Example

Graph $4x + 5y = 20$ using x- and y-intercepts.

a. Write the equation in large figures so that each term is slightly smaller than a self-stick note.

b. Write a zero on a self-stick note.

c. Place the note over the $4x$. Solve the remaining equation.

$$0 + 5y = 20$$
$$5y = 20$$
$$y = 4$$

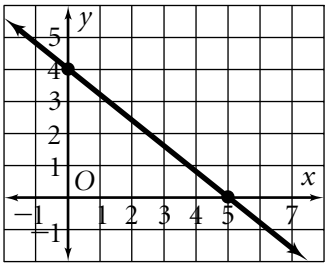
This gives us the point of the y-intercept: $(0, 4)$.

d. Place the note over the $5y$. Solve the remaining equation.

$$4x + 0 = 20$$
$$4x = 20$$
$$x = 5$$

This gives us the point of the x-intercept: $(5, 0)$.

e. Graph the two points. Draw the line between them.



Exercises

Graph each equation using steps a–e.

1. $3x + 4y = 36$

2. $5x + 3y = 15$

3. $7x - 4y = 28$

4. $4x - 3y = 9$

5. $10x + 30y = 90$

6. $6x + 3y = 12$

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