Handout 1.3: More About Linear Equations

Name: _____ Date: ____ Per: ____

Write an equation in point-slope form for the line that satisfies each set of conditions.

1) Slope -1, passes through (0,0)

2) Slope 3, passes through (1, -3)

3) (-2,1) and (3,-2)

4) (-5, -2) and (-1, 3)

Write each equation in standard form. Identify A, B, and C.

5) y = -4x - 7

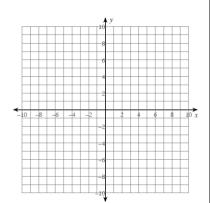
6) 12y = 4x + 8

7) 2.4y = -14.4x

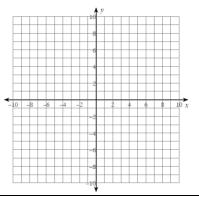
8) $\frac{2}{3}y - \frac{3}{4}x + \frac{1}{6} = 0$

Find the x-intercept and the y-intercept of the graph of each equation. Then graph the equation using the intercepts.

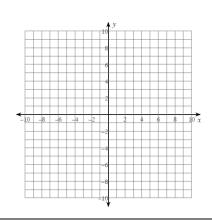
9)
$$y = -2x - 8$$



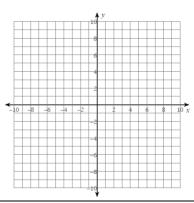
10)
$$5y = 15x - 45$$



11)
$$-4y + 6x = -42$$



12)
$$\frac{1}{3}x - \frac{2}{9}y = 2$$



- **13)** A plumber charges \$25 for a service call plus \$50 per hour of service.
 - a. Write and equation in slope-intercept form that represents this situation.
 - b. What does the slope represent in this situation?
 - c. What does the y-intercept represent in this situation?
- **14)** Aidyn collected 100 pounds of aluminum cans to recycle. He plans to collect an additional 25 pounds each week.
 - a. Write and equation in slope-intercept form that represents this situation.
 - b. What does the slope represent in this situation?

 - c. What does the y-intercept represent in this situation?
 - _____