## Handout 1.3: More About Linear Equations

Name: $\qquad$ Date: $\qquad$ Per: $\qquad$
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) $y=-4 x-7$
6) $12 y=4 x+8$
7) $2.4 y=-14.4 x$
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.

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?
$\qquad$
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?

