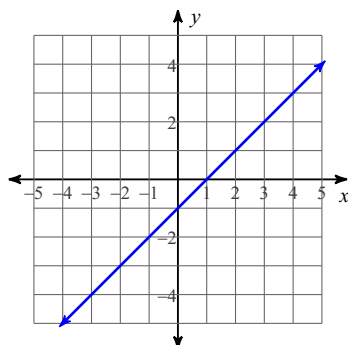Algebra 2

# #3 Writing Linear Equations

Name_____

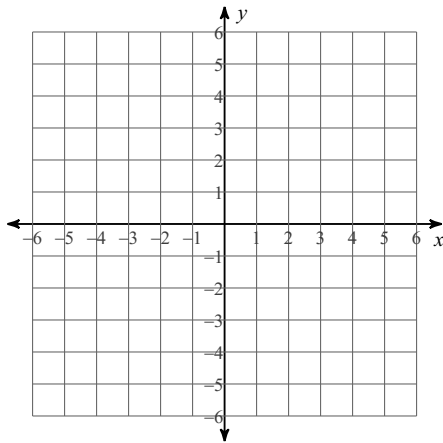Date_____ Period_____ Row _____

**Write the slope-intercept form of the equation of each line.**
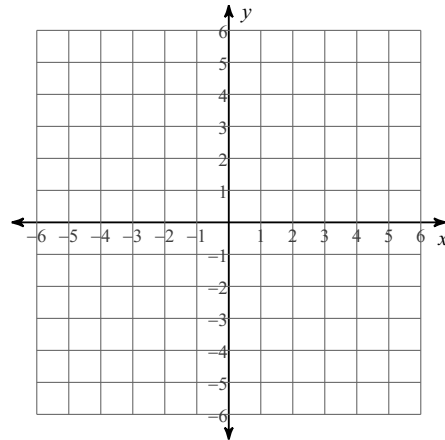
1)



**Write the slope-intercept form of the equation of the line through the given points.**

2) through: $(0, -3)$ and $(3, 0)$

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

3) through: $(2, 0)$, slope $= -1$

-1-

**Sketch the graph of each line.**

4) $y = -\dfrac{2}{5}x - 3$

5) $y = -3x + 1$

6) Mika's cell phone bill cost her $25 for 20 picture messages. Tommy has the same plan and his bill was $30 after sending 40 messages. Write an equation that shows the cost (y) as a function of how many messages (x) are sent.

7) A truck is filled with 2500 kilograms of concrete. It pours the concrete at a rate of 100 kilograms per minute. Write an equation to model how much concrete is left (y) in the truck after x minutes.

8) A t-shirt company charges $99 for set-up plus an additional $13 for each shirt. Write an equation to model the cost (y) of x shirts.