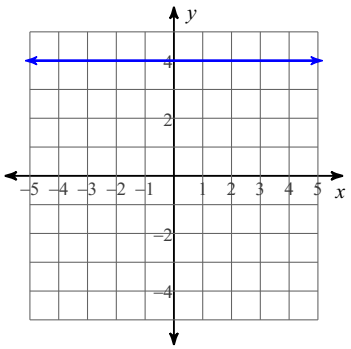
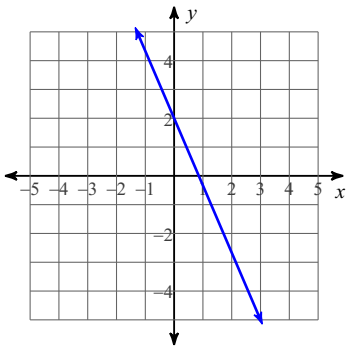
Alg1+ Writing Equations: Graph, Slope, & Point Name_____

Identify the slope and the y-intercept of each. Then, write the slope-intercept form of the equation of each line.

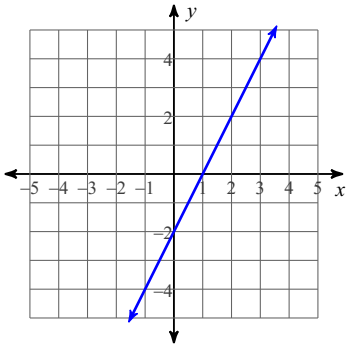
1)



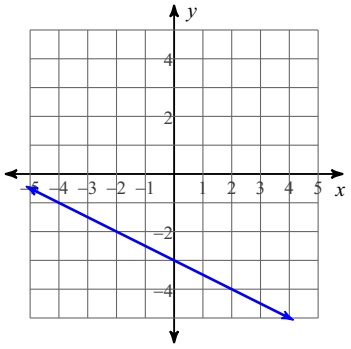
2)



3)



4)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = 2, y-intercept = –5

6) Slope = $-\frac{1}{2}$, y-intercept = 1

7) Slope = $-\frac{1}{3}$, y-intercept = 1

8) Slope = $-\frac{1}{4}$, y-intercept = 0

9) Slope = –1, y-intercept = 4

10) Slope = 2, y-intercept = 2

11) Slope = $-\frac{3}{5}$, y-intercept = 0

12) Slope = $\frac{6}{5}$, y-intercept = 4

Write the slope-intercept form of the equation of the line through the given point with the given slope. (You will have to find b first!)

13) through: $(-3, 3)$, slope = –4

14) through: $(1, 0)$, slope = 3

15) through: $(-4, 2)$, slope = -1

16) through: $(0, 2)$, slope = 7

17) through: $(-3, -4)$, slope = 3

18) through: $(-1, 2)$, slope = -4

19) through: $(1, 2)$, slope = 1

20) through: $(4, -1)$, slope = -1