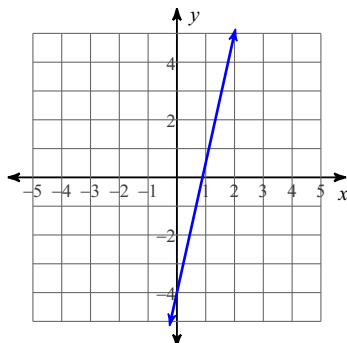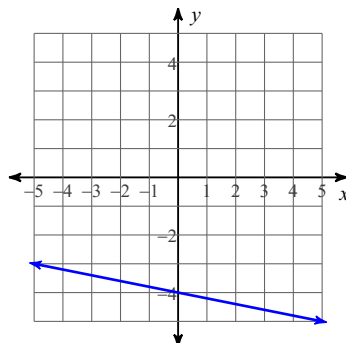Algebra 1

Name_____ ID: 1

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of each line.

1)

2)

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

3) Slope $= -1$, y-intercept $= 5$

4) Slope $= -\dfrac{7}{2}$, y-intercept $= 3$

Write the point-slope form of the equation of the line through the given point with the given slope. Then rewrite the equation of the line in slope-intercept form.

5) through: $(5, 0)$, slope $= -\dfrac{3}{4}$

6) through: $(-1, -2)$, slope $= \dfrac{1}{2}$

7) through: $(1, 5)$, slope $= \dfrac{3}{5}$

8) through: $(-2, -2)$, slope $= -3$

9) through: $(-2, 2)$, slope $= 0$

10) through: $(-3, 3)$, slope $= -\dfrac{2}{5}$

11) through: $(3, -1)$, slope = 1

12) through: $(-5, -4)$, slope = undefined

Write the point-slope form of the equation of the line through the given points. Then rewrite the equation of the line in slope-intercept form.

13) through: $(-4, -4)$ and $(5, -2)$

14) through: $(0, 3)$ and $(4, 0)$

15) through: $(1, -1)$ and $(-3, 4)$

16) through: $(3, 5)$ and $(-5, 5)$

17) through: $(2, 1)$ and $(2, -1)$

18) through: $(1, -2)$ and $(-1, 4)$

Answers to Assignment (ID: 1)

1) $y = \dfrac{9}{2}x - 4$

2) $y = -\dfrac{1}{5}x - 4$

3) $y = -x + 5$

4) $y = -\dfrac{7}{2}x + 3$

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

6) $y + 2 = \dfrac{1}{2}(x + 1)$

7) $y - 5 = \dfrac{3}{5}(x - 1)$

8) $y + 2 = -3(x + 2)$

9) $y - 2 = 0$

10) $y - 3 = -\dfrac{2}{5}(x + 3)$

11) $y + 1 = x - 3$

12) $0 = x + 5$

13) $y + 4 = \dfrac{2}{9}(x + 4)$

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

15) $y + 1 = -\dfrac{5}{4}(x - 1)$

16) $y - 5 = 0$

17) $0 = x - 2$

18) $y + 2 = -3(x - 1)$