Algebra 1B   Name_____ ID: 1

Point-Slope/Standard Form Review

Date_____ Period_____

Graph each linear equations.

1) $y + 5 = 0$

2) $y - 1 = -2(x - 1)$

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

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

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

Write the point-slope, then slope-intercept form of the equation of the line through the given points.

6) through: $(0, -4)$ and $(-1, 1)$

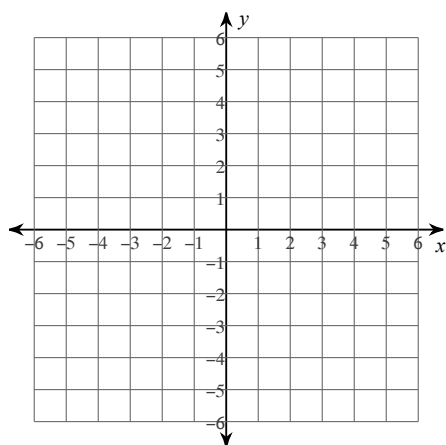7) through: $(-3, -2)$ and $(4, -5)$

8) through: $(5, 0)$ and $(3, 1)$
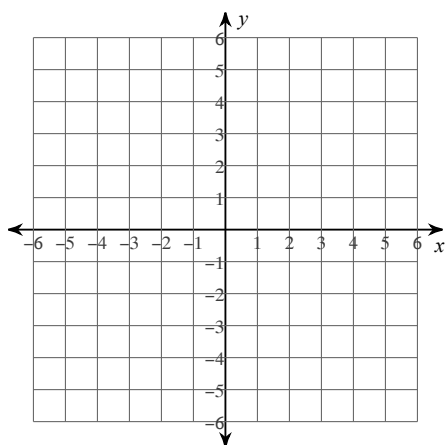
9) through: $(5, -4)$ and $(-1, -1)$

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

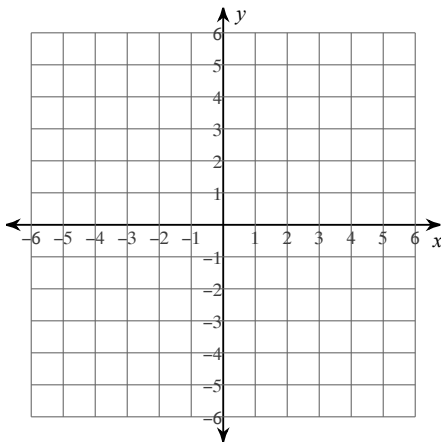**Sketch the graph of each line.**
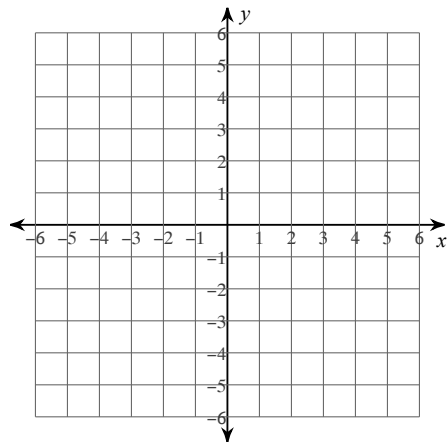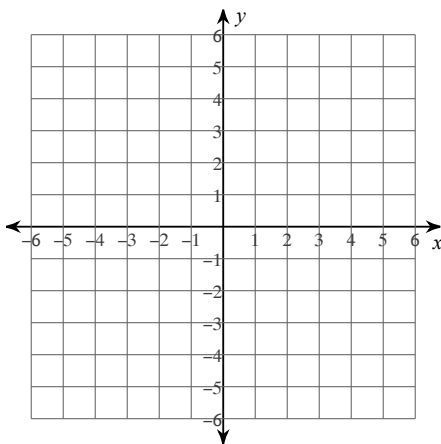
11) $x + y = -5$

12) $2x + 3y = -6$

13) $3x - y = 2$

14) $6x + y = -5$

15) $x - 4y = -16$

Write the point-slope, then slope-intercept, then standard form of the equation of the line through the given points.

16) through: $(5, 5)$ and $(0, -4)$

17) through: $(1, -2)$ and $(2, 0)$

18) through: $(0, 0)$ and $(2, 2)$

19) through: $(-3, -3)$ and $(-5, 0)$

20) through: $(0, 5)$ and $(-4, -2)$

Answers to Point-Slope/Standard Form Review (ID: 1)

1) $y = -5$

2) $y = -2x + 3$

3) $y = \dfrac{3}{4}x + \dfrac{1}{2}$

4) $y = -\dfrac{7}{3}x + 5$

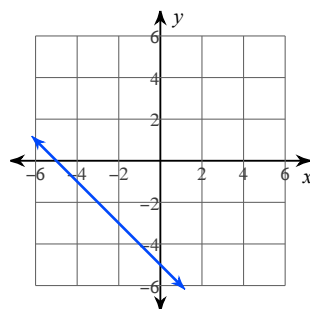5) $y = \dfrac{5}{2}x - 3$

6) $y = -5x - 4$

7) $y = -\dfrac{3}{7}x - \dfrac{23}{7}$
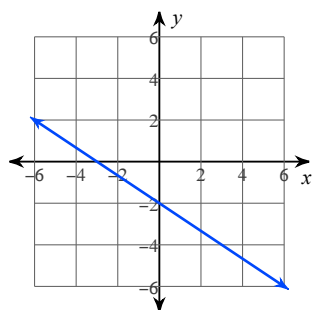
8) $y = -\dfrac{1}{2}x + \dfrac{5}{2}$

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

10) $y = -\dfrac{1}{5}x + \dfrac{6}{5}$
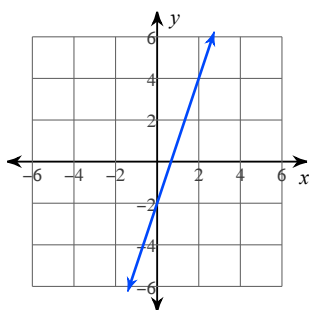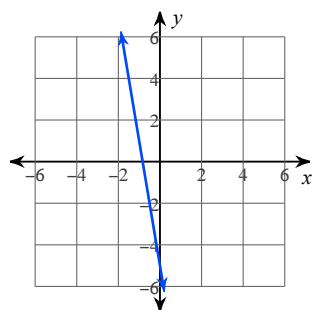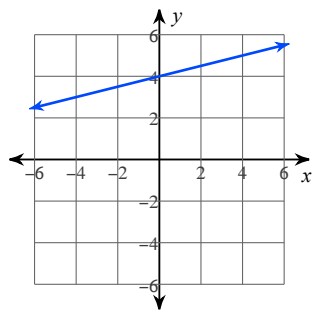
11)

12)

13)

14)

15)

16) $9x - 5y = 20$

17) $2x - y = 4$

18) $x - y = 0$

19) $3x + 2y = -15$

20) $7x - 4y = -20$