Algebra 1   Name_____ ID: 1

Write the slope-intercept form of the equation

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

2) through: $(5, -4)$, slope $= \dfrac{1}{5}$

3) through: $(-1, -5)$, slope $= 9$

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

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

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

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

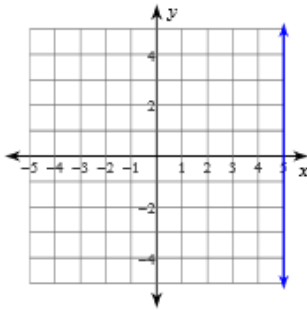7) through: $(-4, -2)$ and $(-3, 3)$

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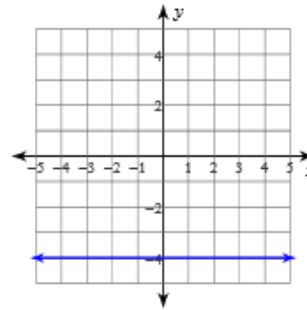
9) through: $(5, 2)$ and $(3, 4)$

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

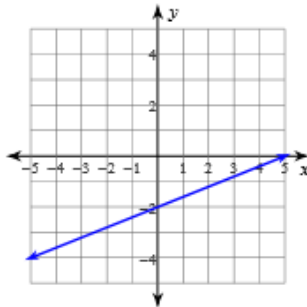**Write the slope-intercept form of the equation of each line.**
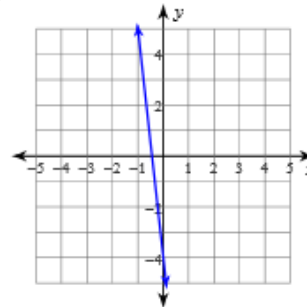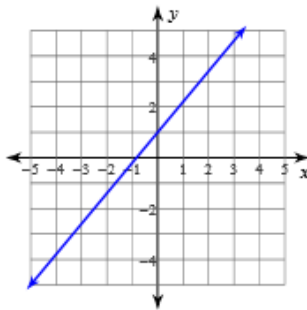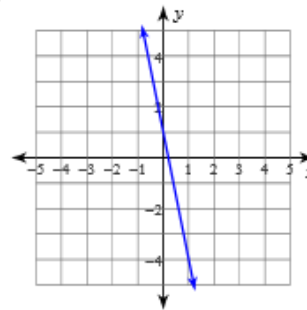
11)

12)

13)

14)

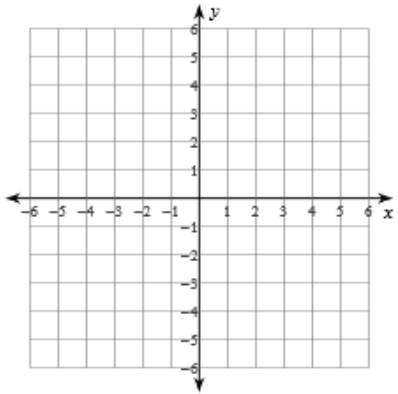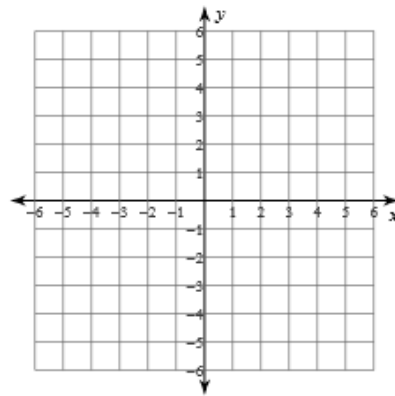**Write the slope-intercept form of the equation of each line.**

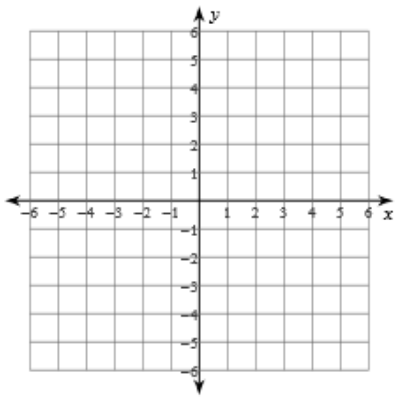15)

16)

Sketch the graph of each line.
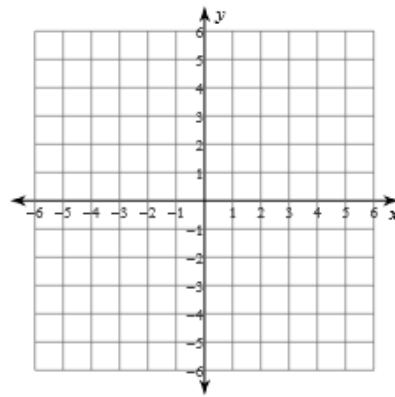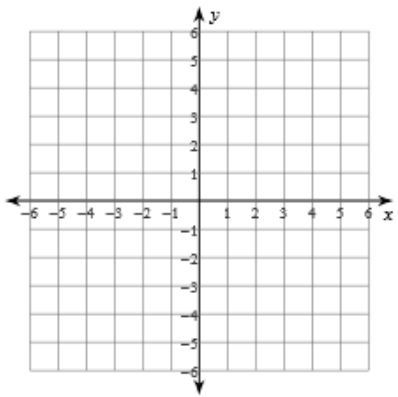
17) $y = 2x$

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

19) $7x - 3y = -12$

20) $3x + 5y = -15$

21) $x + 4y = 0$

22) $x + 5y = -10$