Slope, Slope Intercept, and Parallel/Perpendicular   Date_____ Period_____
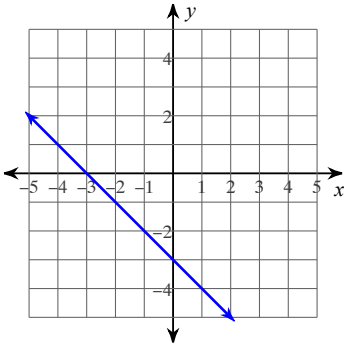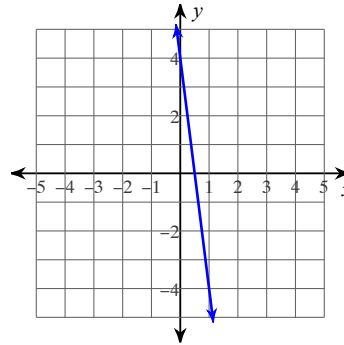
Write the slope-intercept form of the equation of each line.
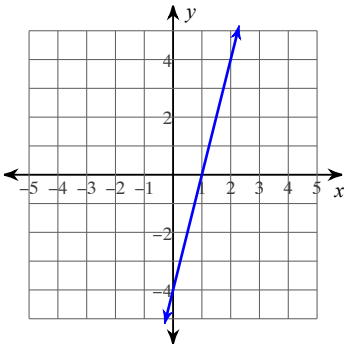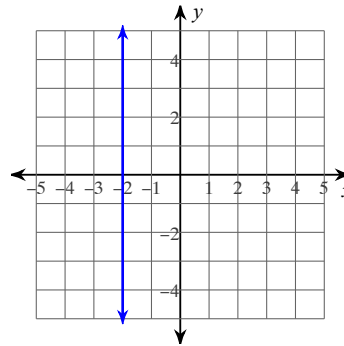
1)

2)

3)

4)

5) $0 = x - 4$

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

7) $0 = x + 1$

8) $y + 4 = \dfrac{7}{5}(x + 5)$

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

9) Slope $= \dfrac{5}{3}$, y-intercept $= 2$

10) Slope $= 7$, y-intercept $= -3$

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

12) Slope $= -\dfrac{5}{3}$, y-intercept $= 0$

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

13) $3x + 2y = -16$

14) $15x + 4y = 28$

15) $9x - 5y = 35$

16) $4x - 3y = 3$

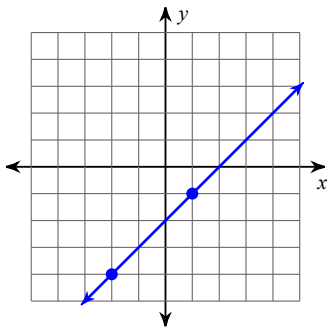**Find the slope of the line through each pair of points.**

17) $(8, 17), (-10, 17)$
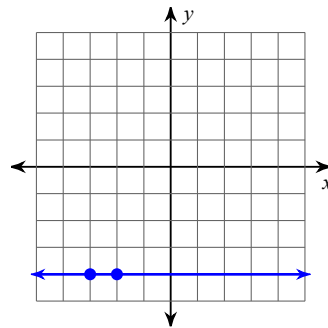
18) $(-18, 15), (6, -11)$

19) $(20, 1), (-1, 1)$

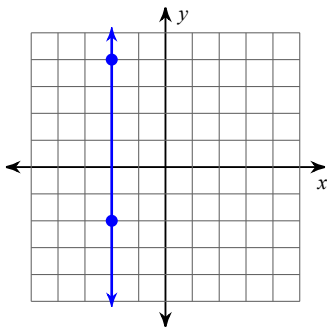20) $(-6, 3), (-3, 18)$

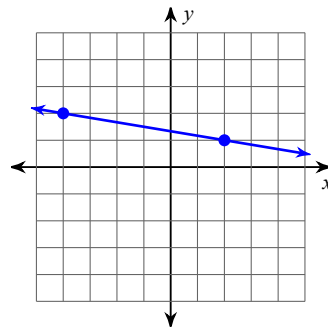**Find the slope of each line.**

21)

22)

23)

24)

Find the slope of a line parallel to each given line.

25) $y = -\dfrac{1}{2}x + 1$

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

Find the slope of a line perpendicular to each given line.

27) $y = -9x - 5$

28) $y = x - 2$