Algebra 1

Chapter 5 Test - Review
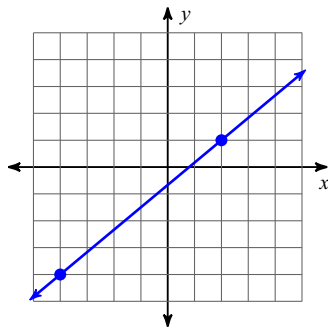
Name_____

Date_____ Period____ Table_____

Write the slope-intercept form of the equation of each line given the slope and y-intercept.
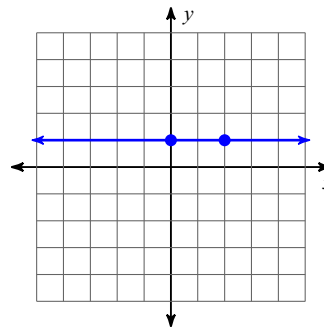
1) Slope = 3,   y-intercept = 3

2) Slope $= -\dfrac{1}{5}$,   y-intercept = 2

Find the slope of each line.

3)

4)

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

5) $(2, -1), (-12, -3)$
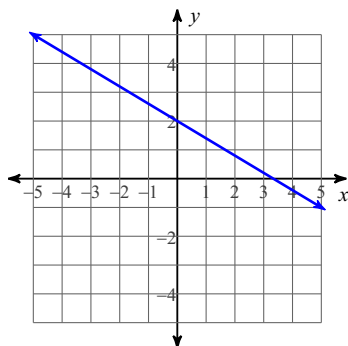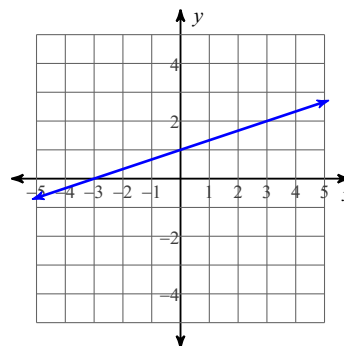
6) $(-2, -3), (-2, -20)$

7) $(-14, 2), (8, 2)$

8) $(-5, 9), (-12, -5)$

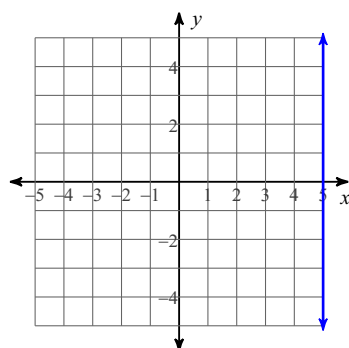**Write the slope-intercept form of the equation of each line.**
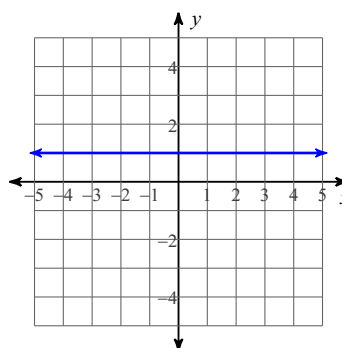
9)

10)

11)

12)

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

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

14) through: $(1, -5)$, slope $= -8$

What is the point and the slope of the given line?

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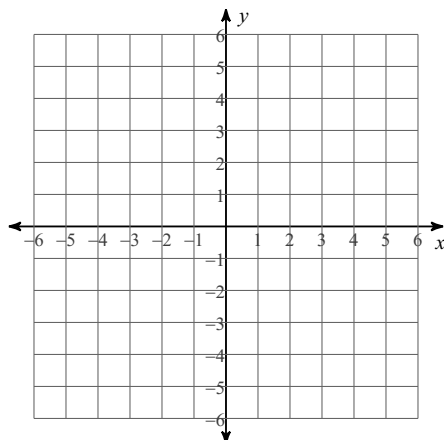
16) $y + 3 = 4(x + 2)$

Write the slope-intercept form of the equation of the line through the given points.
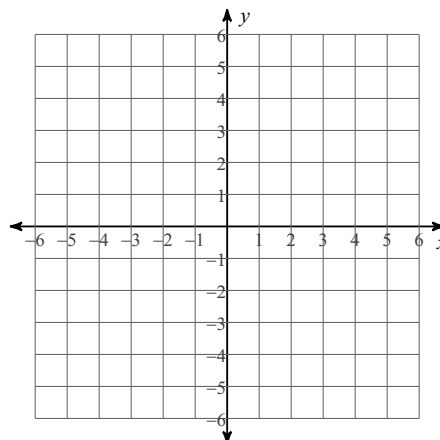
17) through: $(4, 2)$ and $(0, 5)$

18) through: $(2, 2)$ and $(3, 0)$

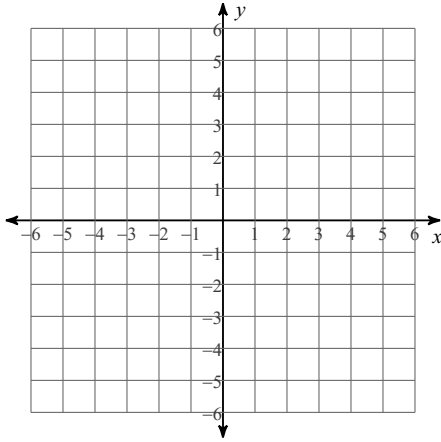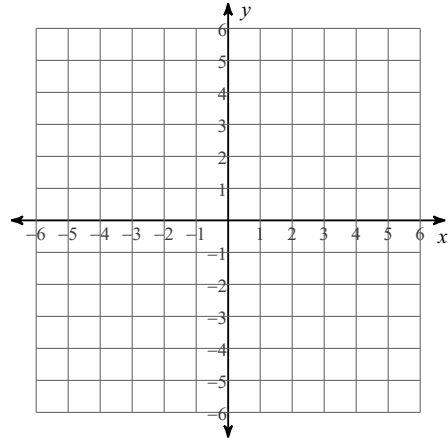**Sketch the graph of each line.**

19) $y = -2x - 3$

20) $y = x - 3$

21) $x = -4$

22) $y = 5$

EITHER write the slope-intercept form of the equation of each line or find the x- and y-intercepts.
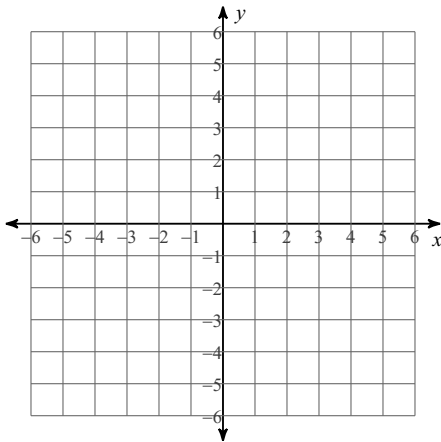
23) $2x - y = -1$

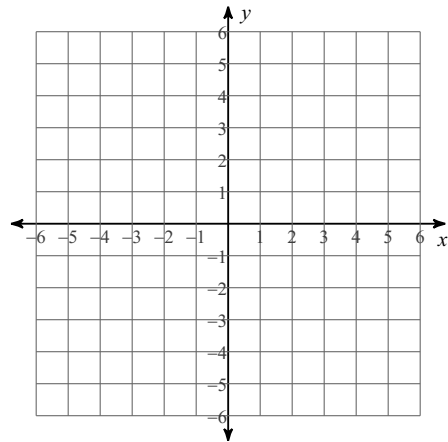24) $x - 4y = -16$

25) $3x - y = -6$

26) $2x + y = 12$

Sketch the graph of each line.

27) $x - 3y = -3$

28) $x + y = -3$

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

29) through: $(2, 5)$, parallel to $y = \dfrac{5}{2}x + 2$

30) through: $(-3, -2)$, parallel to $y = -6x - 5$

31) through: $(0, 2)$, parallel to $y = -2$

32) through: $(2, 4)$, parallel to $x = 0$

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

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

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

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

35) through: $(-5, 1)$, perp. to $y = -5x - 2$

36) through: $(1, 0)$, perp. to $y = \dfrac{1}{4}x + 3$