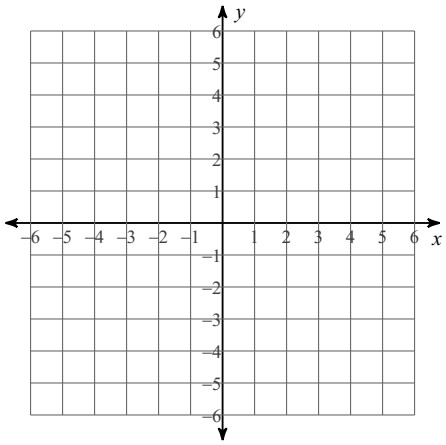
Algebra 1 Name_____

Extra Credit: Slope-Intercept Form

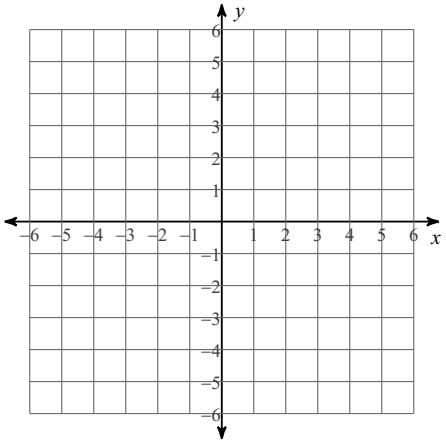
Period____

Sketch the graph of each line.

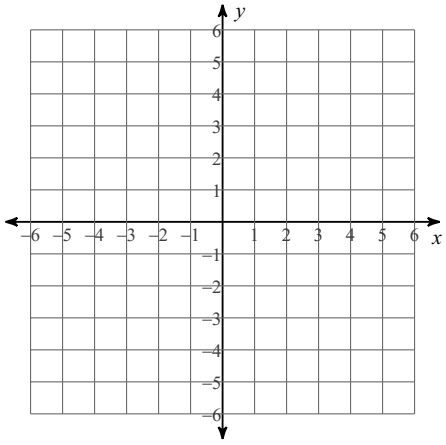
1) $y = x - 1$



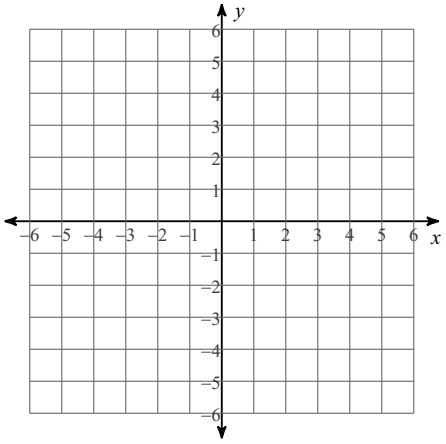
2) $y = -\frac{4}{3}x + 1$



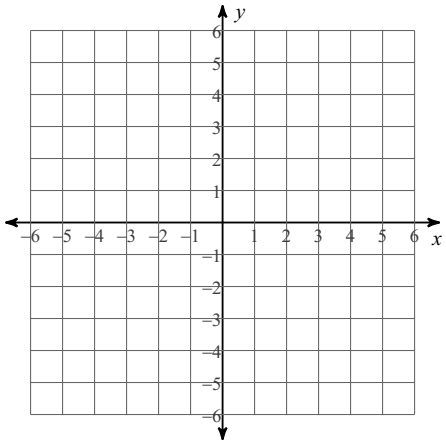
3) $y = -\frac{3}{2}x - 1$



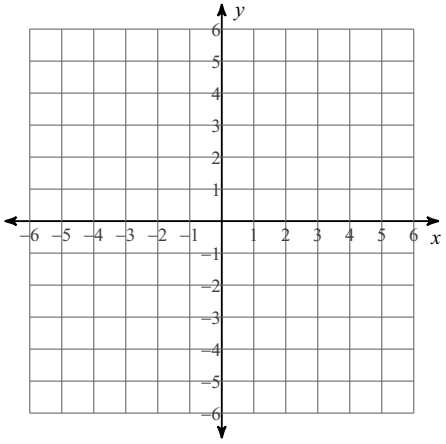
4) $y = 2x - 2$



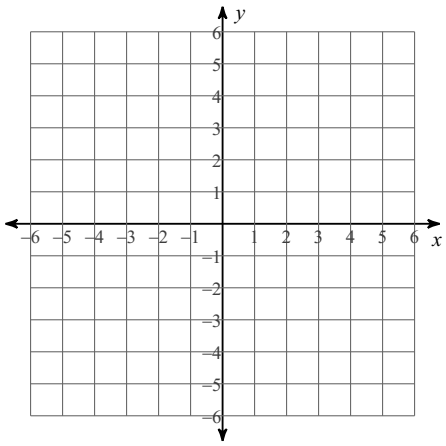
5) $y = -4$



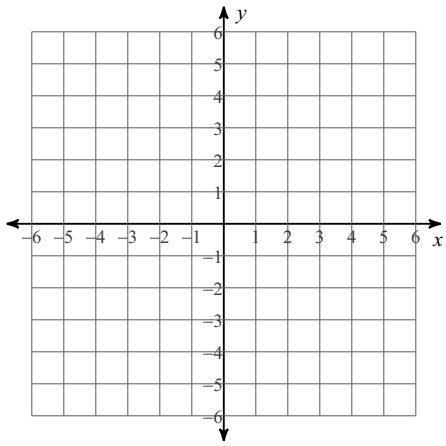
6) $y = -\frac{1}{3}x - 3$



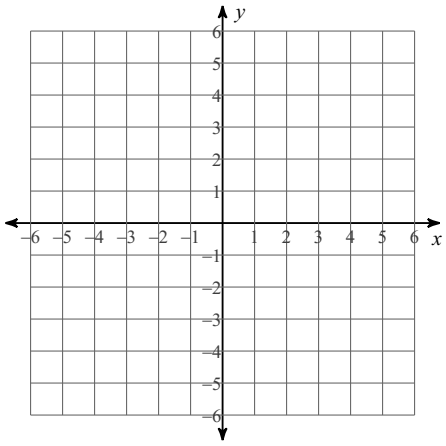
7) $y = -\frac{4}{5}x + 2$



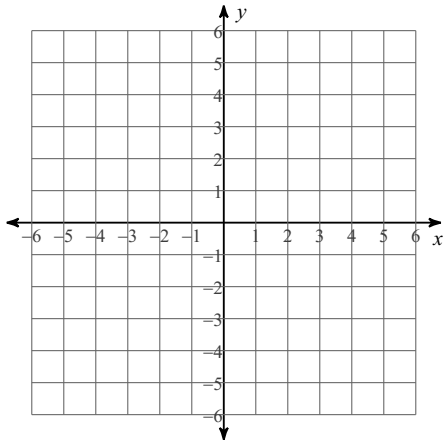
8) $y = \frac{2}{5}x$



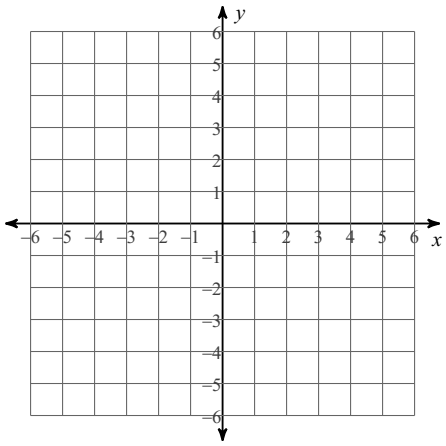
9) $y = x + 4$



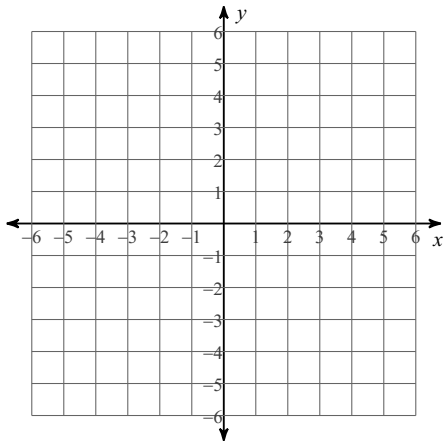
10) $y = -\frac{6}{5}x - 4$



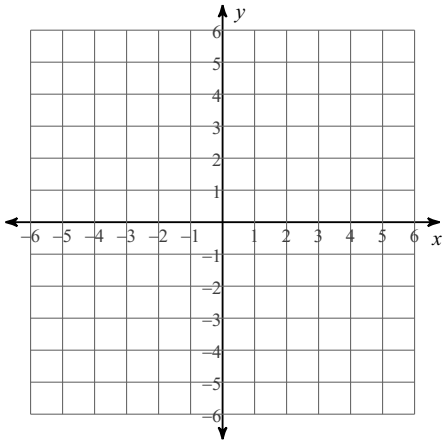
11) $y = -\frac{5}{3}x$



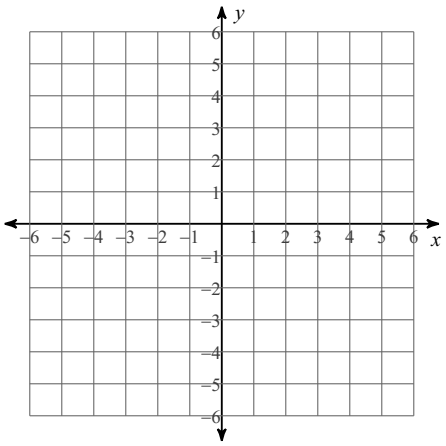
12) $y = \frac{1}{2}x + 3$



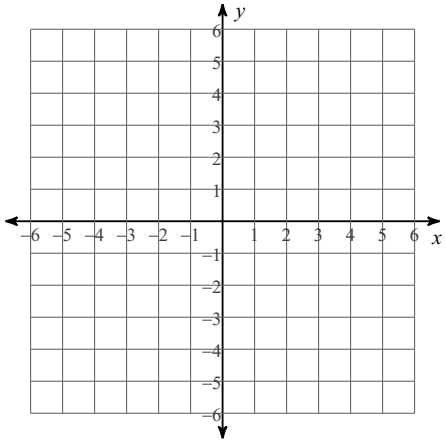
13) $y = 2x$



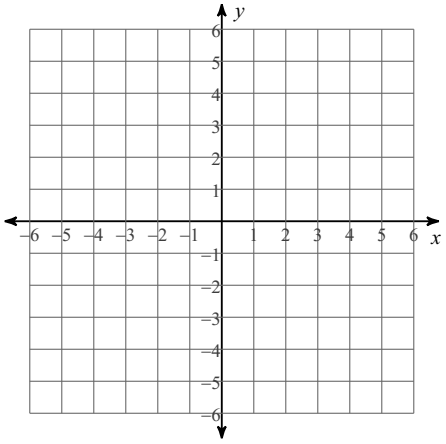
14) $y = \frac{9}{4}x + 4$



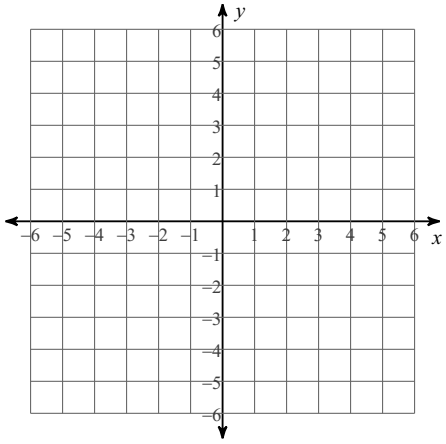
15) $y = x - 4$



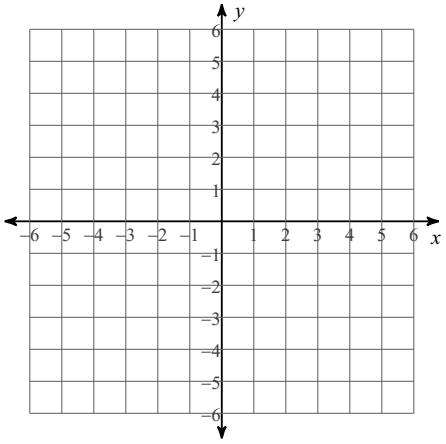
16) $y = x + 1$



17) $y = -\frac{2}{5}x + 4$

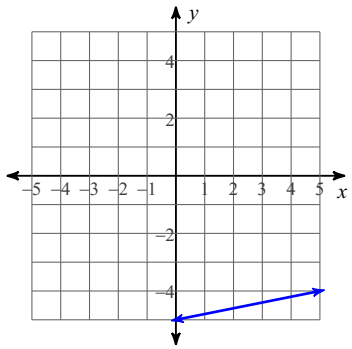


18) $y = \frac{1}{4}x + 2$

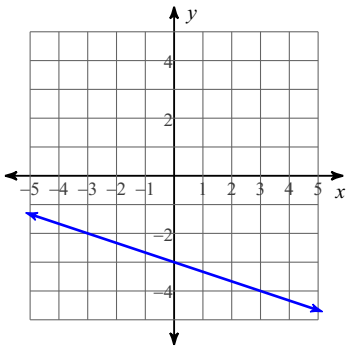


Write the slope-intercept form of the equation of each line.

19)



20)



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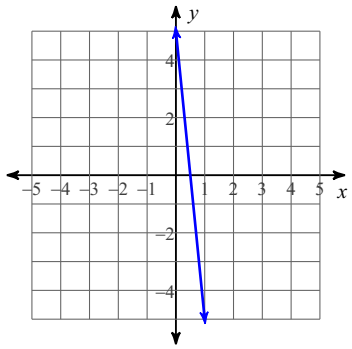

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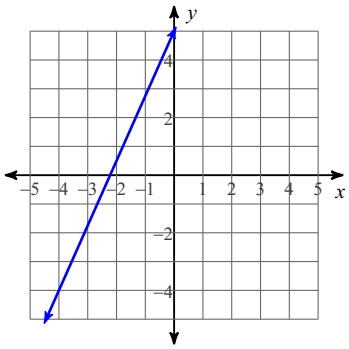
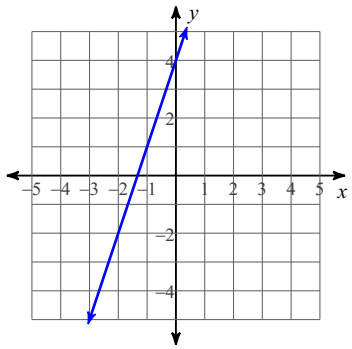
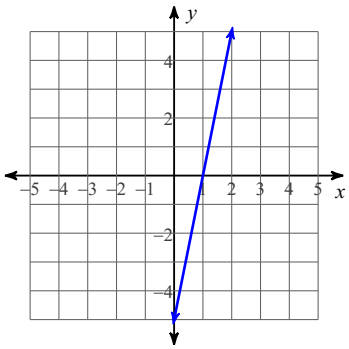


23)



24)



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

25) Slope $= -\frac{4}{3}$, y-intercept $= -1$

26) Slope $= \frac{8}{5}$, y-intercept $= 5$

27) Slope $= 3$, y-intercept $= 2$

28) Slope $= -1$, y-intercept $= -1$

29) Slope $= 0$, y-intercept $= -2$

30) Slope $= -\frac{4}{3}$, y-intercept $= 0$

31) Slope $= \frac{5}{3}$, y-intercept $= -1$

32) Slope $= \frac{1}{4}$, y-intercept $= 3$

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

33) $y - 5 = \frac{1}{2}(x - 4)$

34) $y + 1 = \frac{6}{5}(x + 5)$

35) $y + 3 = 5(x + 1)$

36) $y - 3 = \frac{1}{4}(x - 4)$

37) $y + 5 = \frac{1}{2}(x + 4)$

38) $y + 1 = 0$

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

39) through: $(-5, 1)$, slope $= \frac{3}{5}$

40) through: $(2, -5)$, slope $= -3$

41) through: $(3, -1)$, slope $= -\frac{2}{3}$

42) through: $(-1, 2)$, slope $= 0$

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

44) through: $(-2, 2)$, slope $= -\frac{3}{2}$

45) through: $(3, 4)$, slope $= \frac{8}{3}$

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

47) through: $(-1, -5)$, slope $= \frac{3}{4}$

48) through: $(-4, 3)$, slope $= -\frac{1}{4}$

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

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

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

51) through: $(0, -1)$ and $(-5, -4)$

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

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

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

55) through: $(2, -2)$ and $(-5, 5)$

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

57) through: $(2, 0)$ and $(5, -3)$

58) through: $(-2, 5)$ and $(3, 1)$

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

59) through: $(4, 4)$, parallel to $y = \frac{3}{4}x + 5$

60) through: $(5, 3)$, parallel to $y = \frac{4}{5}x + 4$

61) through: $(1, 5)$, parallel to $y = 4x - 2$

62) through: $(4, -1)$, parallel to $y = -\frac{5}{7}x - 2$

63) through: $(1, -1)$, parallel to $y = -5x + 2$

64) through: $(-3, 0)$, parallel to $y = -\frac{3}{4}x + 2$

65) through: $(3, 0)$, parallel to $y = -\frac{2}{3}x + 4$

66) through: $(-3, 1)$, parallel to $y = x + 2$

67) through: $(-1, -4)$, perp. to $y = -x - 2$

68) through: $(2, -2)$, perp. to $y = -2x + 2$

69) through: $(3, -3)$, perp. to $y = -\frac{3}{2}x + 5$

70) through: $(1, -5)$, perp. to $y = -\frac{2}{3}x + 1$

71) through: $(-3, -3)$, perp. to $y = -\frac{3}{4}x - 5$

72) through: $(2, 3)$, perp. to $y = x + 1$

73) through: $(2, -4)$, perp. to $y = -2x + 5$

74) through: $(5, 0)$, perp. to $y = -\frac{5}{3}x$