

Assignment

Date _____ Period _____

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

1) $(4, -19), (9, 8)$

2) $(20, -1), (-15, 1)$

3) $(20, -20), (2, -6)$

4) $(3, -5), (11, -1)$

5) $(13, -11), (-13, -8)$

6) $(-16, -15), (3, -17)$

7) $(-4, -5), (8, 10)$

8) $(3, -4), (-5, 8)$

9) $(-4, 8), (10, -7)$

10) $(14, 8), (-19, 19)$

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

11) Slope = -10 , y-intercept = 5

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

13) Slope = -4 , y-intercept = 0

14) Slope = $\frac{3}{2}$, y-intercept = 0

15) Slope = -9 , y-intercept = 5

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

17) Slope = -1 , y-intercept = -3

18) Slope = $-\frac{3}{5}$, y-intercept = 4

19) Slope = 2 , y-intercept = -5

20) Slope = $-\frac{7}{2}$, y-intercept = -2

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

21) through: $(1, 1)$, slope = 5

22) through: $(2, -4)$, slope = $-\frac{3}{2}$

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

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

25) through: $(2, 1)$, slope = $\frac{5}{2}$

26) through: $(1, -5)$, slope = -5

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

28) through: $(-1, 3)$, slope = 1

29) through: $(4, 2)$, slope = $\frac{1}{2}$

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

31) through: $(-1, 0)$, slope = 4

32) through: $(-5, 5)$, slope = $-\frac{7}{8}$

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

34) through: $(1, -2)$, slope = 3

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

36) through: $(-5, -1)$, slope = $\frac{1}{8}$

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

38) through: $(1, -5)$, slope = -6

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

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

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

41) through: $(2, -4)$ and $(0, 0)$

42) through: $(0, 3)$ and $(1, 3)$

43) through: $(-2, 1)$ and $(5, 4)$

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

45) through: $(0, -2)$ and $(4, -1)$

46) through: $(4, 4)$ and $(0, -2)$

47) through: $(0, 5)$ and $(3, 0)$

48) through: $(5, 1)$ and $(2, -5)$

49) through: $(-1, 5)$ and $(0, -5)$

50) through: $(0, 2)$ and $(-2, -5)$

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

52) through: $(0, 0)$ and $(1, 3)$

53) through: $(1, -5)$ and $(-5, 1)$

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

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

56) through: $(5, -1)$ and $(0, 3)$

57) through: $(0, -2)$ and $(3, -4)$

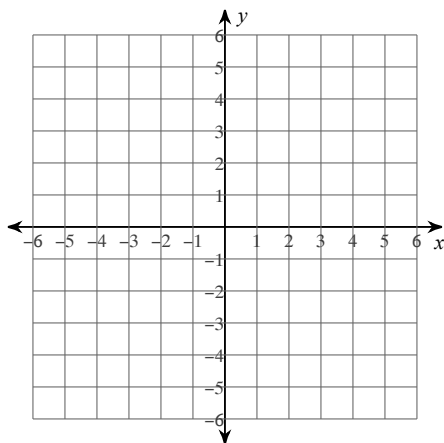
58) through: $(1, 1)$ and $(0, 5)$

59) through: $(-3, 1)$ and $(4, 0)$

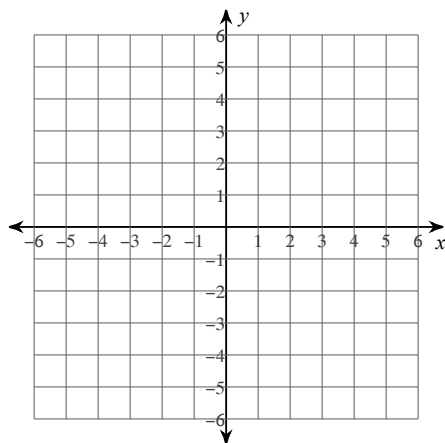
60) through: $(-3, 1)$ and $(4, -2)$

Sketch the graph of each line.

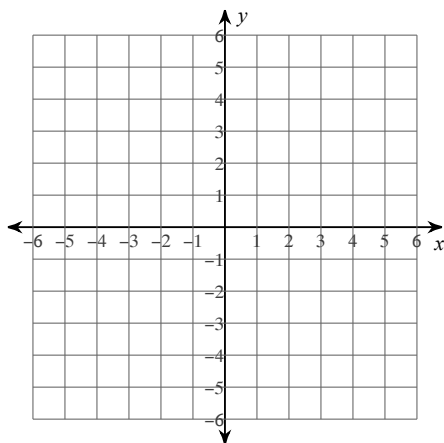
61) $y = 5x - 5$



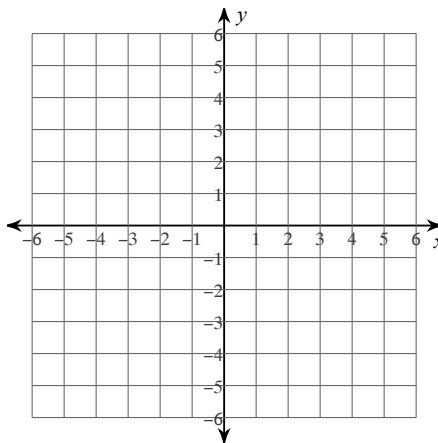
62) $y = -2x - 2$



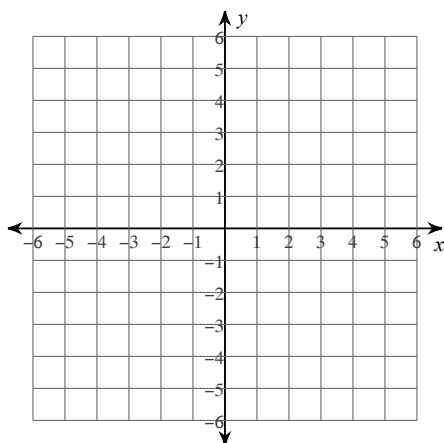
$$63) y = -\frac{6}{5}x - 1$$



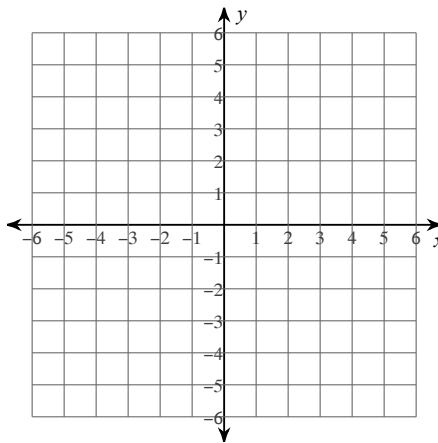
$$64) y = -3x - 1$$



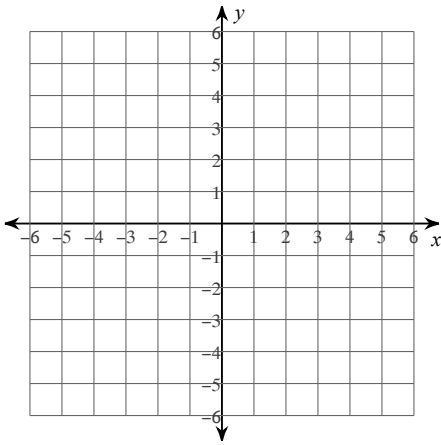
$$65) y = -\frac{4}{3}x - 3$$



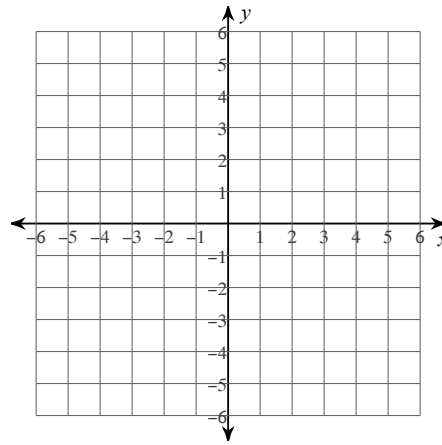
$$66) y = 2x$$



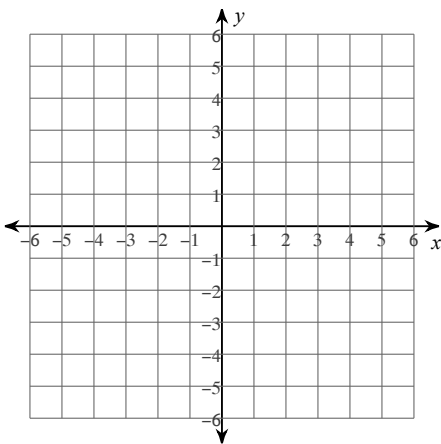
67) $y = -3x + 3$



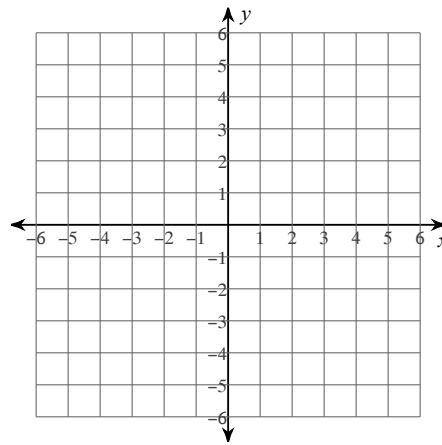
68) $y = -2x - 3$



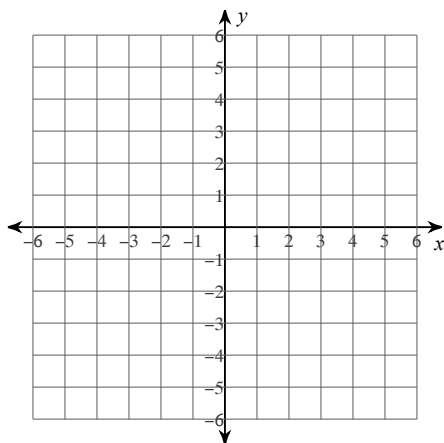
69) $y = -1$



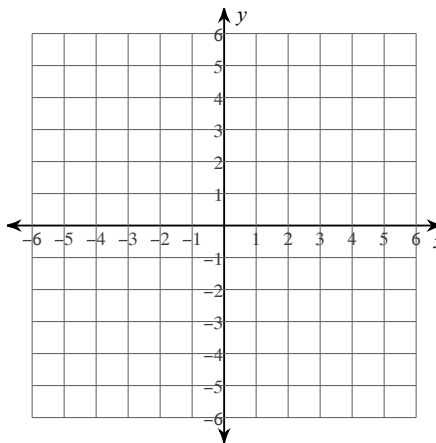
70) $y = -\frac{2}{3}x$



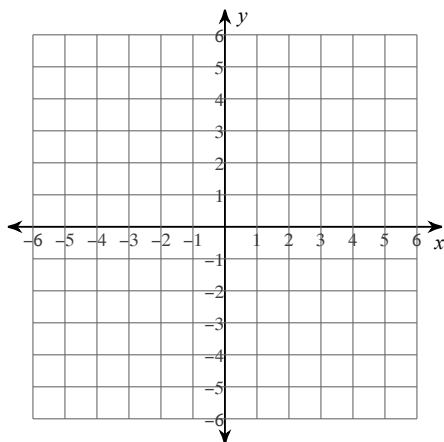
$$71) y = -\frac{4}{5}x + 3$$



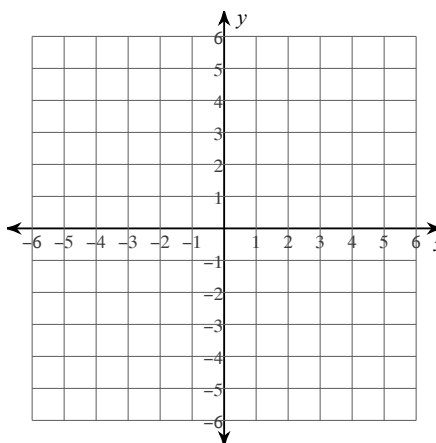
$$72) y = x + 1$$



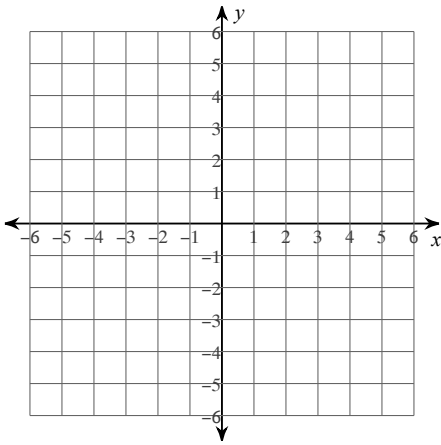
$$73) y = x - 2$$



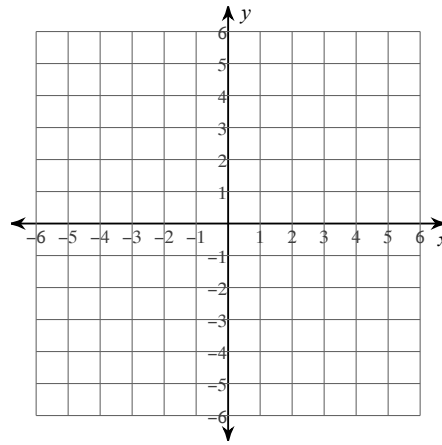
$$74) y = \frac{8}{5}x + 5$$



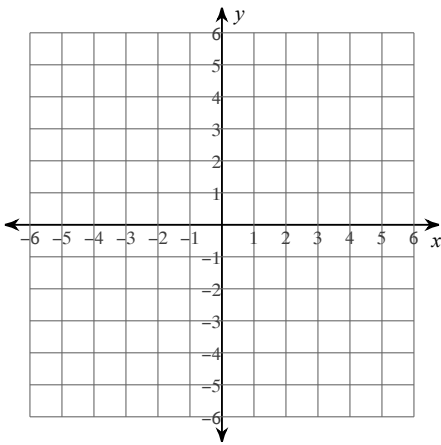
75) $y = 2x - 1$



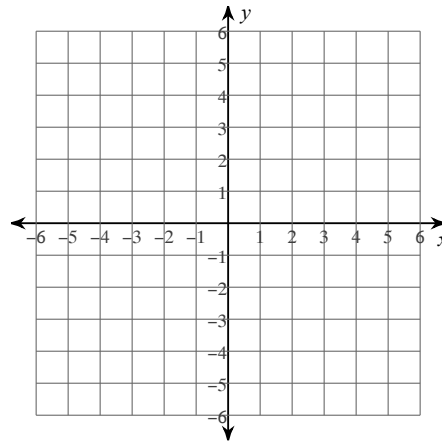
76) $y = x - 1$



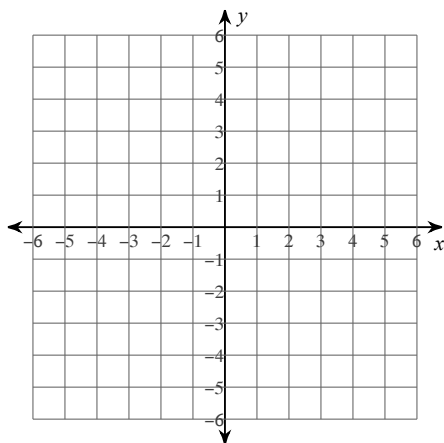
77) $y = \frac{1}{2}x - 3$



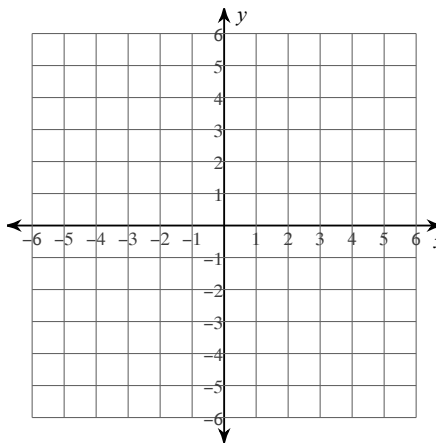
78) $y = -9x - 5$



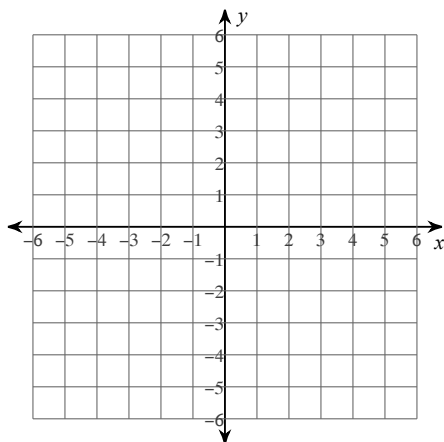
79) $y = \frac{8}{3}x + 3$



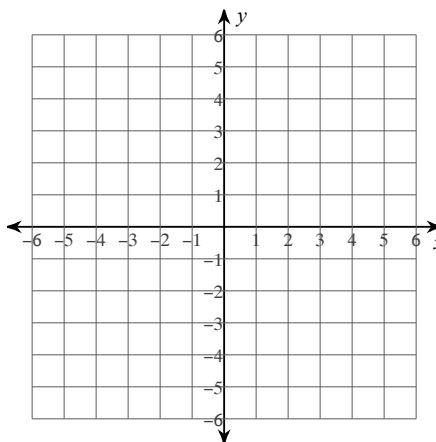
80) $y = -5x - 5$



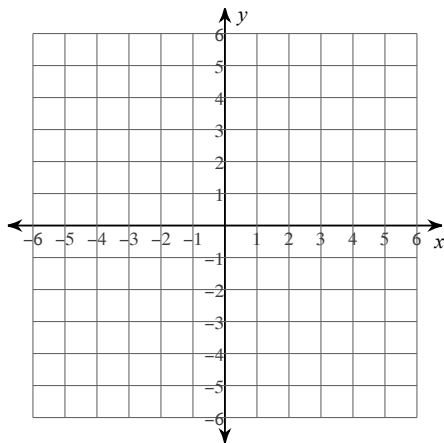
81) $x - y = 1$



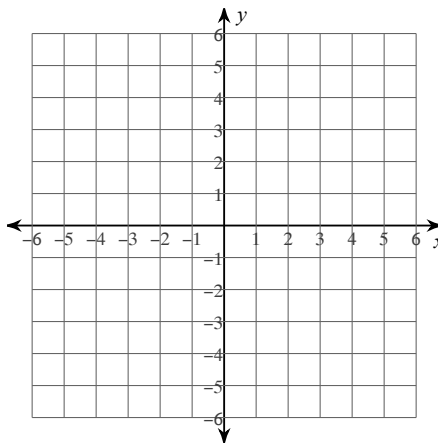
82) $6x + 5y = 20$



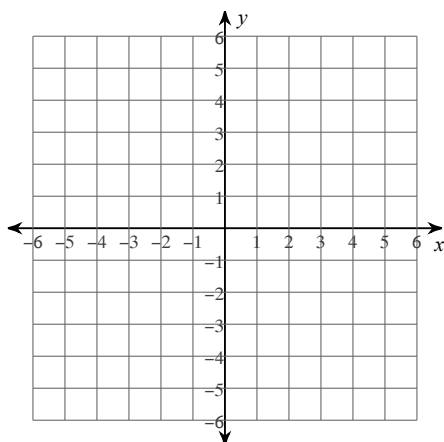
83) $8x - 5y = -15$



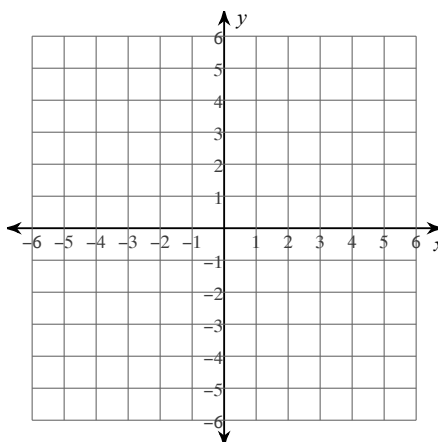
84) $6x - 5y = -20$



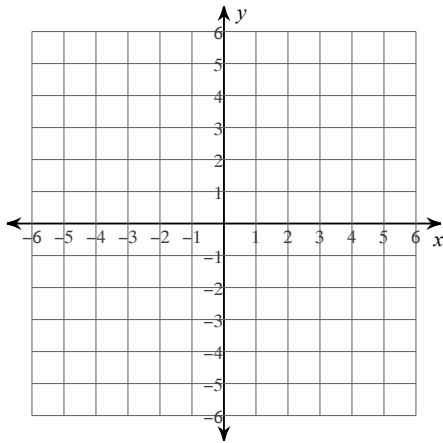
85) $5x + 2y = 8$



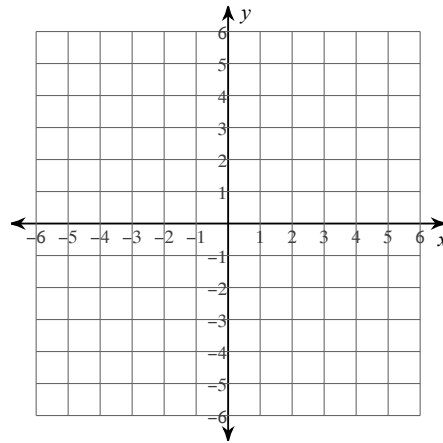
86) $3x + 2y = -8$



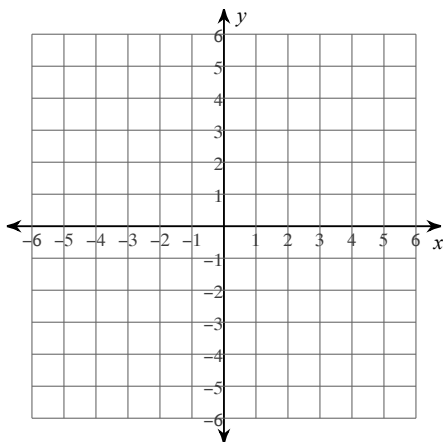
87) $x + y = 1$



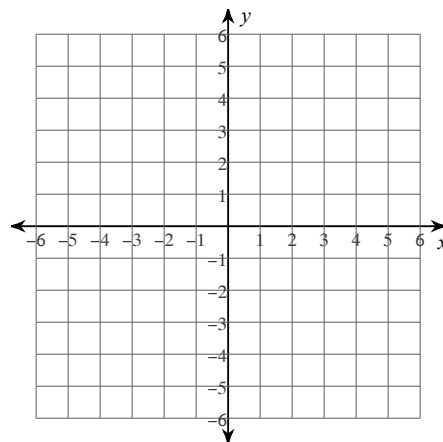
88) $x = 4$



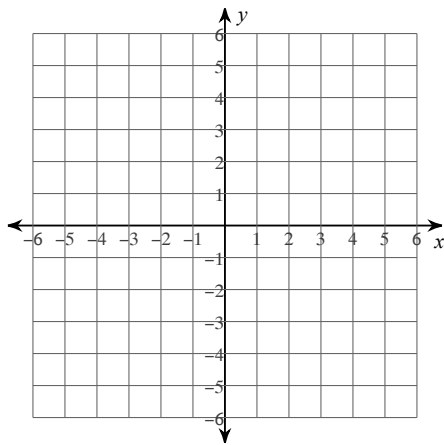
89) $4x - y = -3$



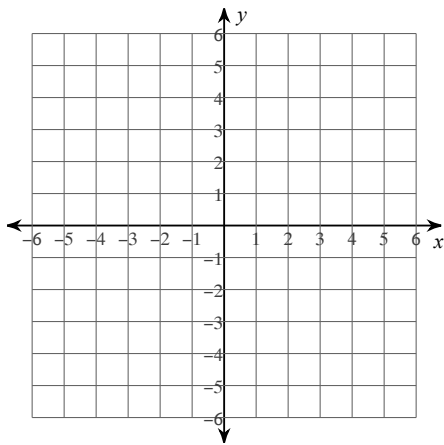
90) $7x + 2y = -6$



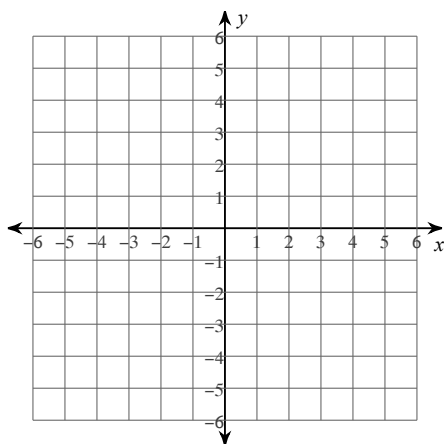
91) $3x - 5y = 10$



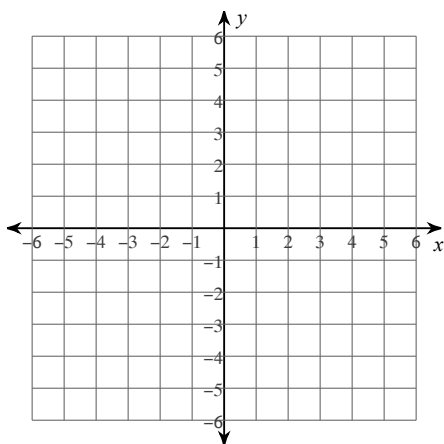
92) $4x - y = 3$



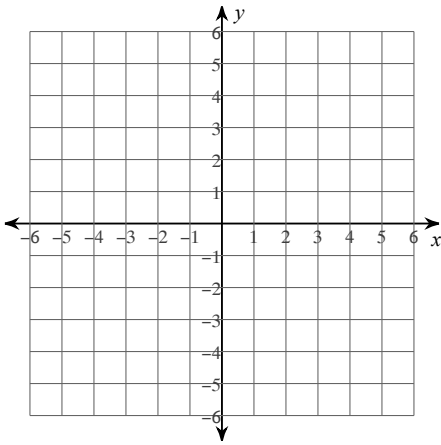
93) $5x + y = -5$



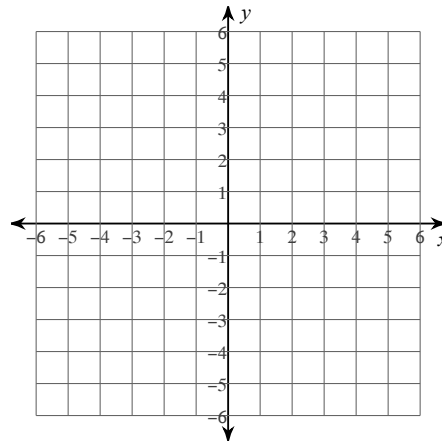
94) $2x - y = 5$



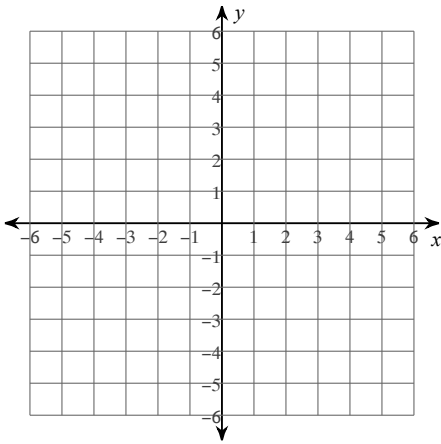
95) $x + 2y = 8$



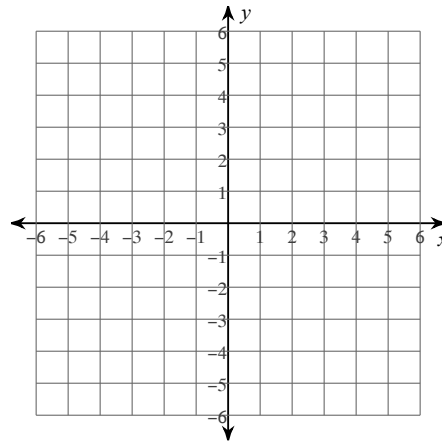
96) $3x + 2y = -4$



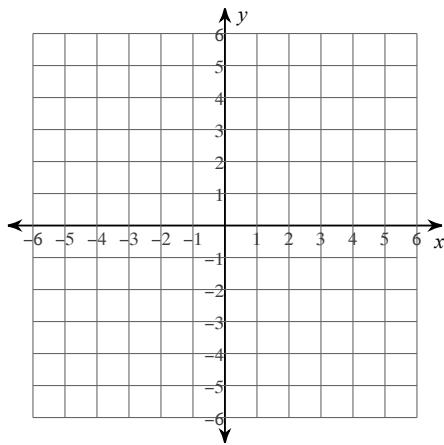
97) $x + 2y = 2$



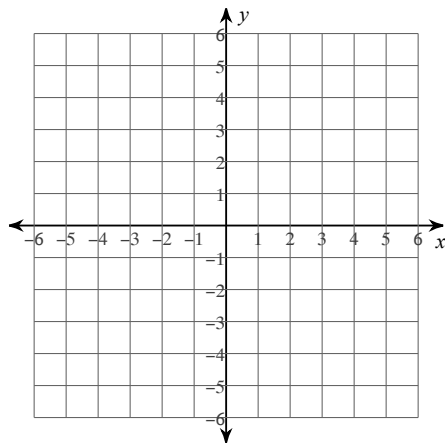
98) $3x - 2y = 4$



99) $3x + y = 1$



100) $x + 3y = -12$



Assignment

Date _____ Period _____

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

1) $(4, -19), (9, 8) \frac{27}{5}$

2) $(20, -1), (-15, 1) -\frac{2}{35}$

3) $(20, -20), (2, -6) -\frac{7}{9}$

4) $(3, -5), (11, -1) \frac{1}{2}$

5) $(13, -11), (-13, -8) -\frac{3}{26}$

6) $(-16, -15), (3, -17) -\frac{2}{19}$

7) $(-4, -5), (8, 10) \frac{5}{4}$

8) $(3, -4), (-5, 8) -\frac{3}{2}$

9) $(-4, 8), (10, -7) -\frac{15}{14}$

10) $(14, 8), (-19, 19) -\frac{1}{3}$

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

11) Slope = -10, y-intercept = 5
 $y = -10x + 5$

12) Slope = $-\frac{1}{5}$, y-intercept = 1 $y = -\frac{1}{5}x + 1$

13) Slope = -4, y-intercept = 0
 $y = -4x$

14) Slope = $\frac{3}{2}$, y-intercept = 0 $y = \frac{3}{2}x$

15) Slope = -9, y-intercept = 5
 $y = -9x + 5$

16) Slope = $\frac{4}{3}$, y-intercept = -3 $y = \frac{4}{3}x - 3$

17) Slope = -1, y-intercept = -3
 $y = -x - 3$

18) Slope = $-\frac{3}{5}$, y-intercept = 4 $y = -\frac{3}{5}x + 4$

19) Slope = 2, y-intercept = -5
 $y = 2x - 5$

20) Slope = $-\frac{7}{2}$, y-intercept = -2 $y = -\frac{7}{2}x - 2$

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

21) through: $(1, 1)$, slope = 5
 $y = 5x - 4$

22) through: $(2, -4)$, slope = $-\frac{3}{2}$ $y = -\frac{3}{2}x - 1$

23) through: $(3, -4)$, slope = $-\frac{5}{3}$ $y = -\frac{5}{3}x + 1$

24) through: $(4, 3)$, slope = $-\frac{1}{4}$ $y = -\frac{1}{4}x + 4$

25) through: (2, 1), slope = $\frac{5}{2}$ $y = \frac{5}{2}x - 4$

26) through: (1, -5), slope = -5
 $y = -5x$

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

28) through: (-1, 3), slope = 1
 $y = x + 4$

29) through: (4, 2), slope = $\frac{1}{2}$ $y = \frac{1}{2}x$

30) through: (3, 2), slope = $\frac{1}{2}$ $y = \frac{1}{2}x + \frac{1}{2}$

31) through: (-1, 0), slope = 4
 $y = 4x + 4$

32) through: (-5, 5), slope = $-\frac{7}{8}$ $y = -\frac{7}{8}x + \frac{5}{8}$

33) through: (-5, -1), slope = $\frac{3}{5}$ $y = \frac{3}{5}x + 2$

34) through: (1, -2), slope = 3
 $y = 3x - 5$

35) through: (-5, -1), slope = $-\frac{1}{5}$ $y = -\frac{1}{5}x - 2$

36) through: (-5, -1), slope = $\frac{1}{8}$ $y = \frac{1}{8}x - \frac{3}{8}$

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

38) through: (1, -5), slope = -6
 $y = -6x + 1$

39) through: (-1, 5), slope = -9
 $y = -9x - 4$

40) through: (-1, 0), slope = -2
 $y = -2x - 2$

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

41) through: (2, -4) and (0, 0)
 $y = -2x$

42) through: (0, 3) and (1, 3)
 $y = 3$

43) through: (-2, 1) and (5, 4) $y = \frac{3}{7}x + \frac{13}{7}$

44) through: (5, -3) and (0, -2) $y = -\frac{1}{5}x - 2$

45) through: (0, -2) and (4, -1) $y = \frac{1}{4}x - 2$

46) through: (4, 4) and (0, -2) $y = \frac{3}{2}x - 2$

47) through: (0, 5) and (3, 0) $y = -\frac{5}{3}x + 5$

48) through: (5, 1) and (2, -5)
 $y = 2x - 9$

49) through: (-1, 5) and (0, -5)
 $y = -10x - 5$

50) through: (0, 2) and (-2, -5) $y = \frac{7}{2}x + 2$

51) through: (5, 4) and (0, -3) $y = \frac{7}{5}x - 3$

52) through: (0, 0) and (1, 3)
 $y = 3x$

53) through: (1, -5) and (-5, 1)
 $y = -x - 4$

54) through: (0, -3) and (-3, 5) $y = -\frac{8}{3}x - 3$

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

$$y = x - 3$$

57) through: $(0, -2)$ and $(3, -4)$ $y = -\frac{2}{3}x - 2$

59) through: $(-3, 1)$ and $(4, 0)$ $y = -\frac{1}{7}x + \frac{4}{7}$

56) through: $(5, -1)$ and $(0, 3)$ $y = -\frac{4}{5}x + 3$

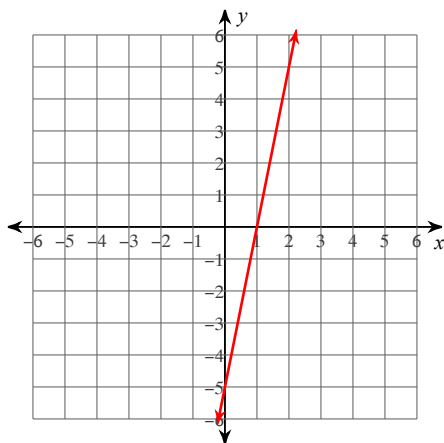
58) through: $(1, 1)$ and $(0, 5)$

$$y = -4x + 5$$

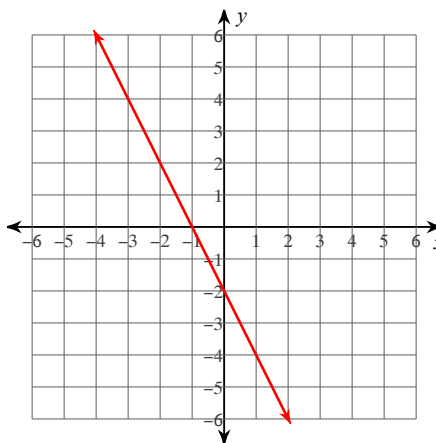
60) through: $(-3, 1)$ and $(4, -2)$ $y = -\frac{3}{7}x - \frac{2}{7}$

Sketch the graph of each line.

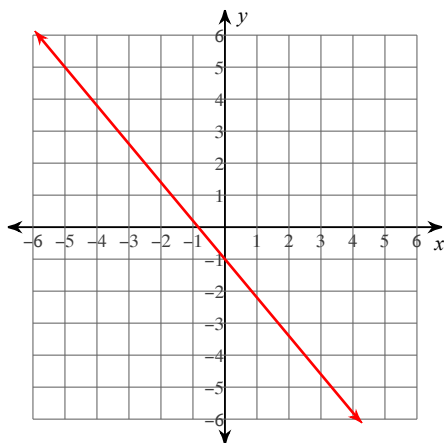
61) $y = 5x - 5$



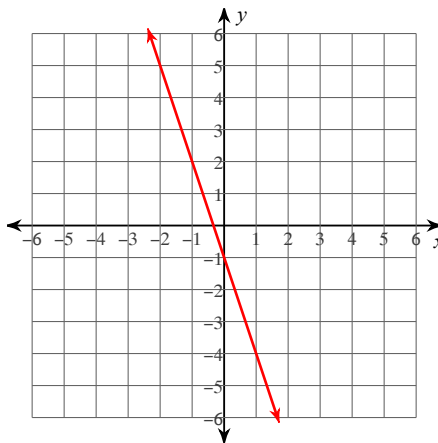
62) $y = -2x - 2$



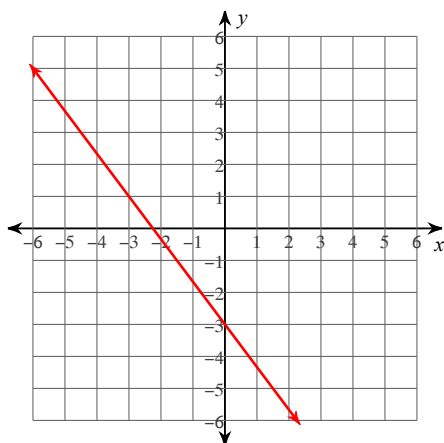
63) $y = -\frac{6}{5}x - 1$



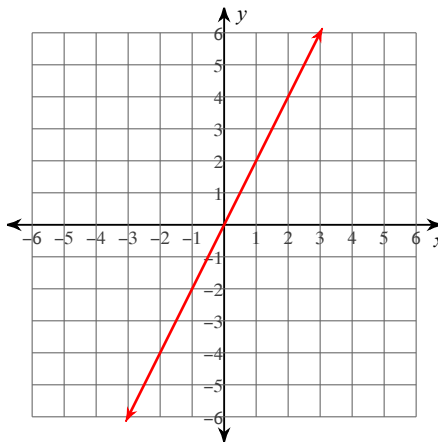
64) $y = -3x - 1$



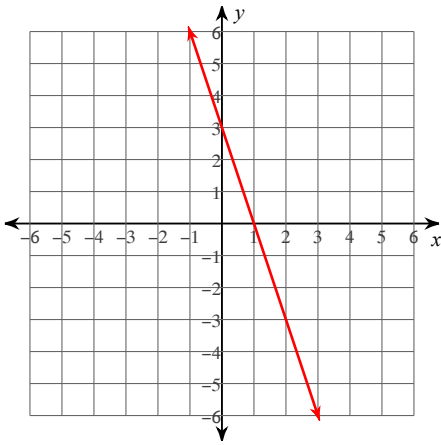
65) $y = -\frac{4}{3}x - 3$



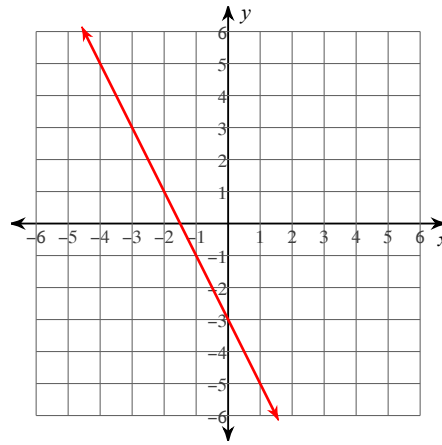
66) $y = 2x$



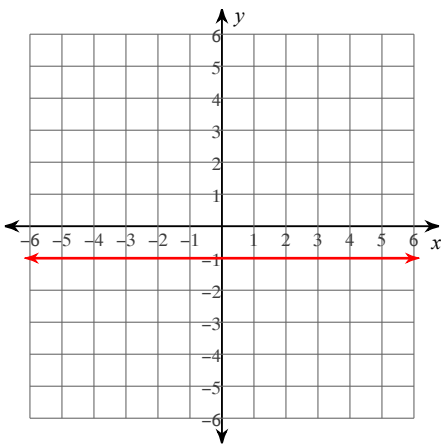
67) $y = -3x + 3$



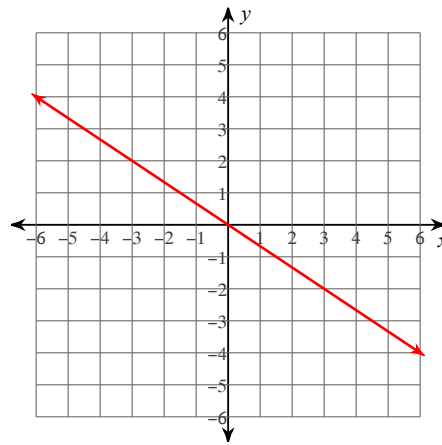
68) $y = -2x - 3$



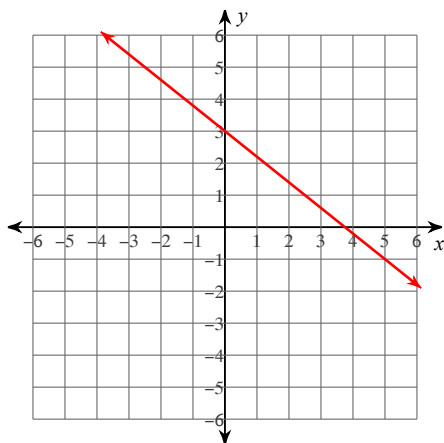
69) $y = -1$



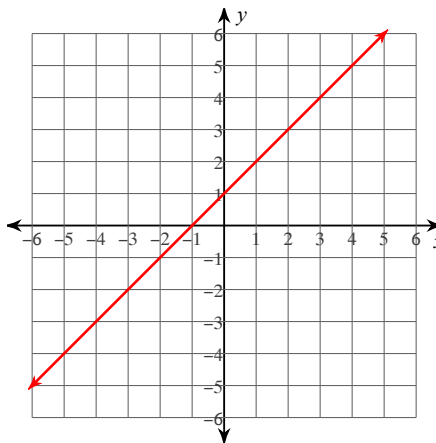
70) $y = -\frac{2}{3}x$



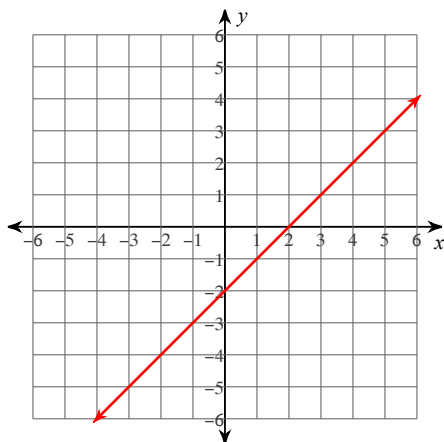
$$71) y = -\frac{4}{5}x + 3$$



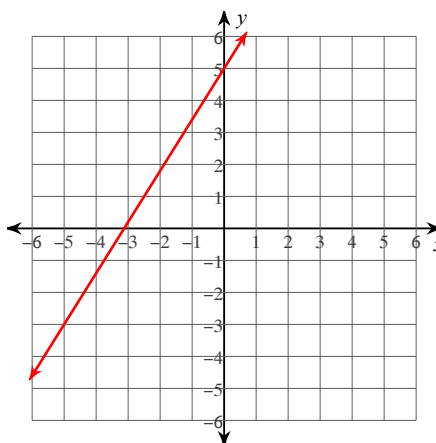
$$72) y = x + 1$$



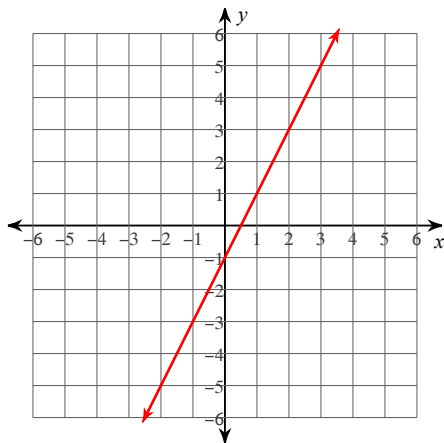
$$73) y = x - 2$$



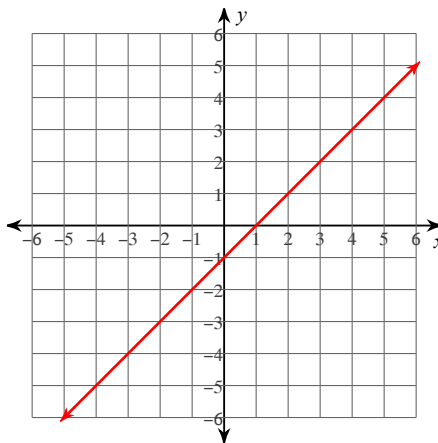
$$74) y = \frac{8}{5}x + 5$$



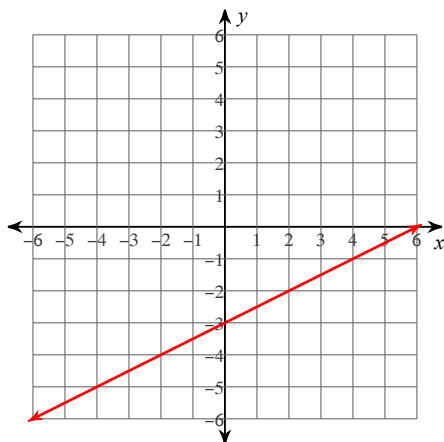
75) $y = 2x - 1$



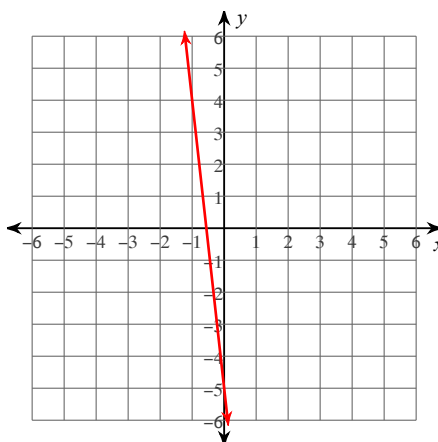
76) $y = x - 1$



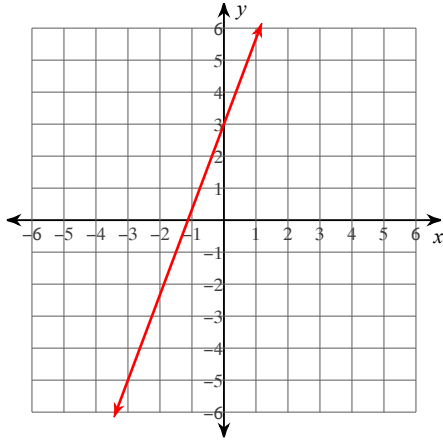
77) $y = \frac{1}{2}x - 3$



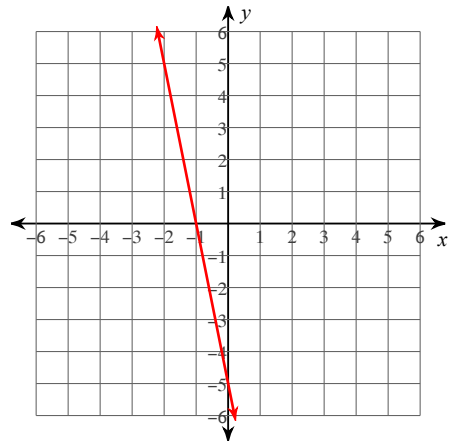
78) $y = -9x - 5$



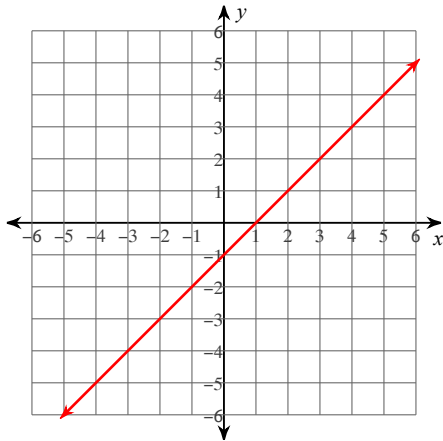
79) $y = \frac{8}{3}x + 3$



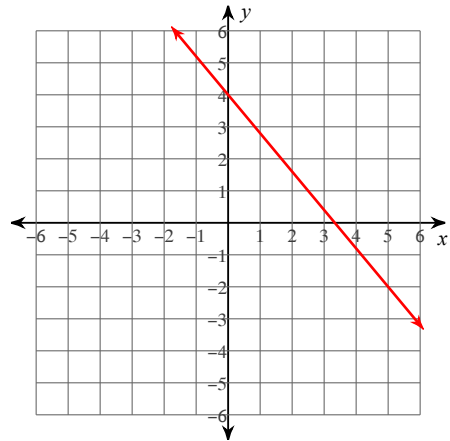
80) $y = -5x - 5$



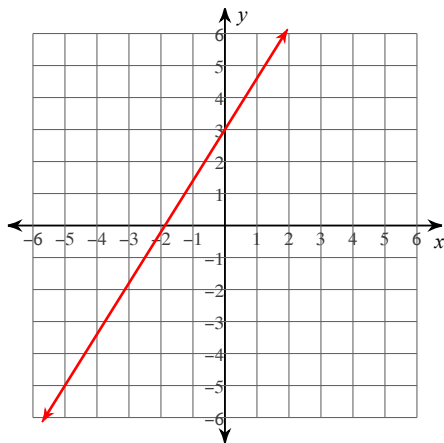
81) $x - y = 1$



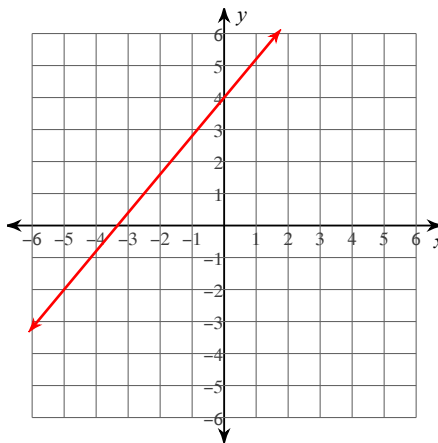
82) $6x + 5y = 20$



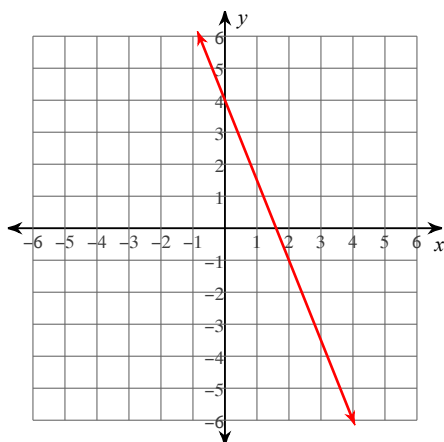
83) $8x - 5y = -15$



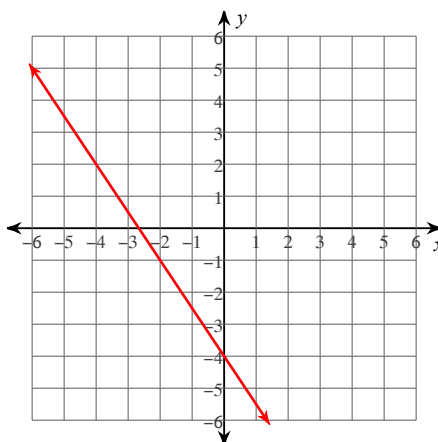
84) $6x - 5y = -20$



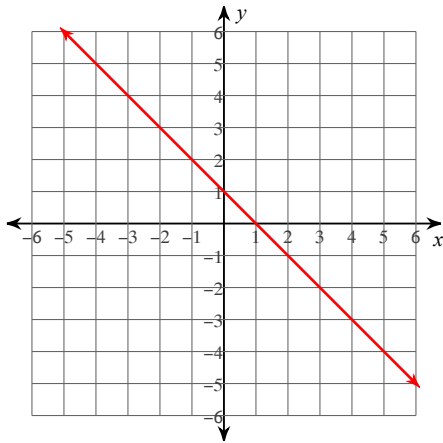
85) $5x + 2y = 8$



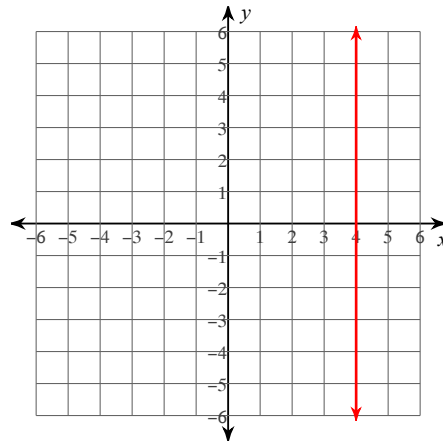
86) $3x + 2y = -8$



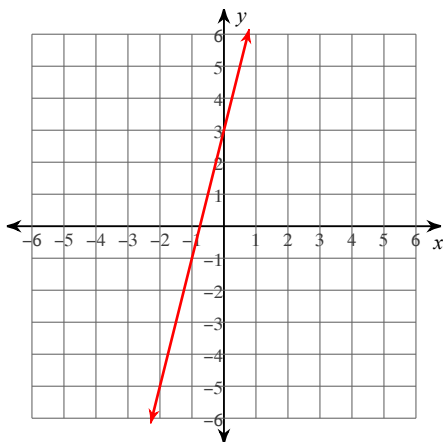
87) $x + y = 1$



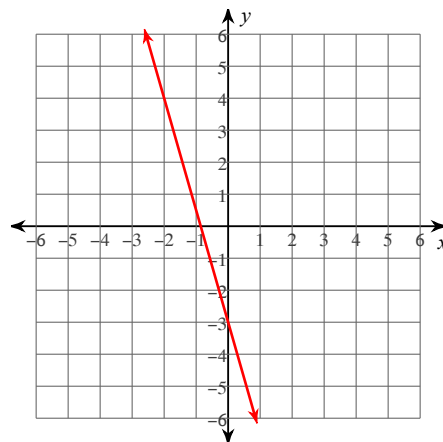
88) $x = 4$



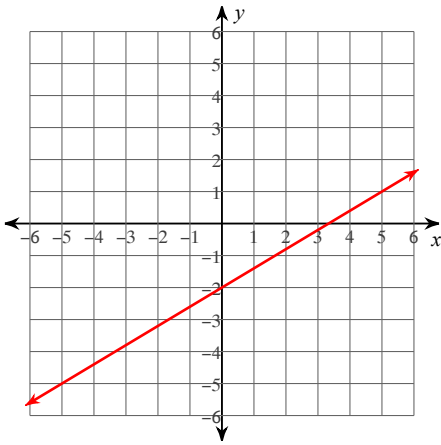
89) $4x - y = -3$



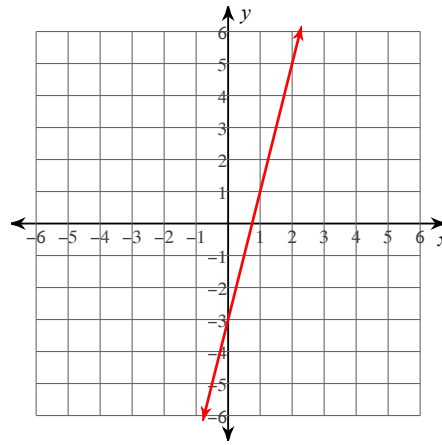
90) $7x + 2y = -6$



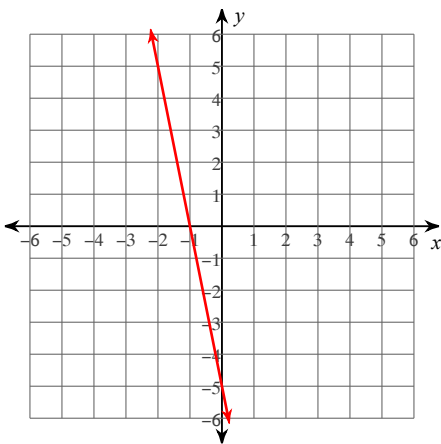
91) $3x - 5y = 10$



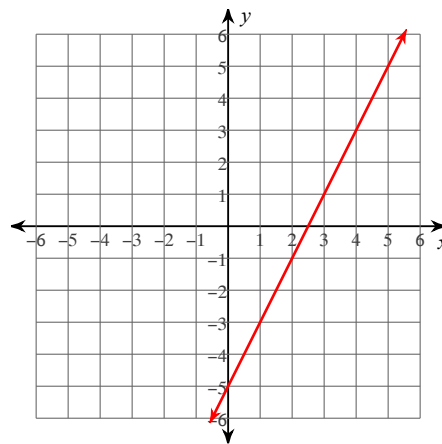
92) $4x - y = 3$



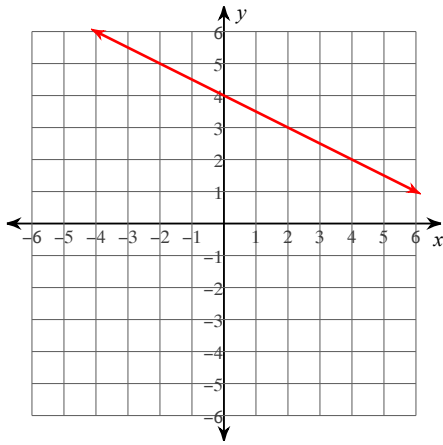
93) $5x + y = -5$



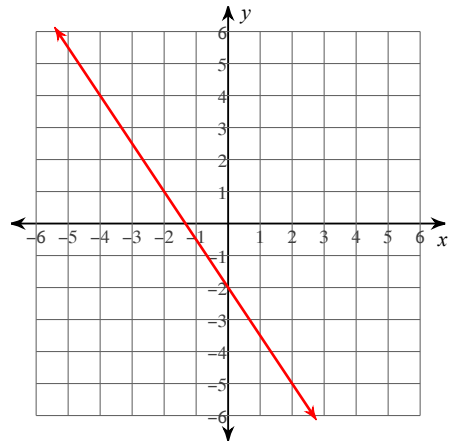
94) $2x - y = 5$



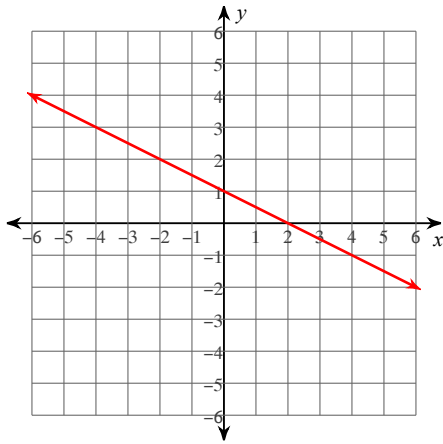
95) $x + 2y = 8$



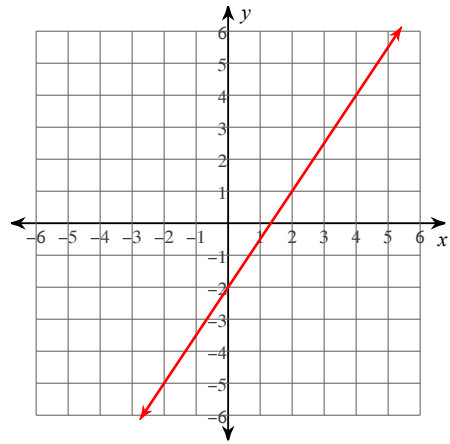
96) $3x + 2y = -4$



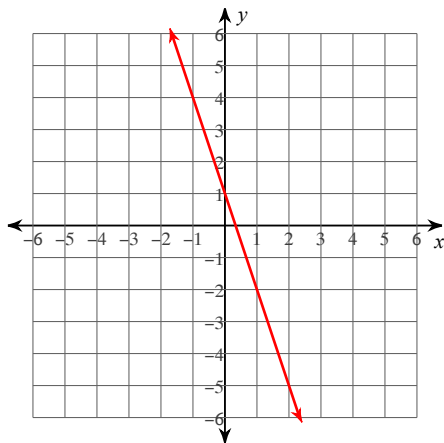
97) $x + 2y = 2$



98) $3x - 2y = 4$



99) $3x + y = 1$



100) $x + 3y = -12$

