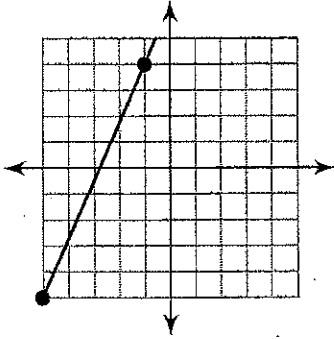


Review of Linear Functions (Lines)

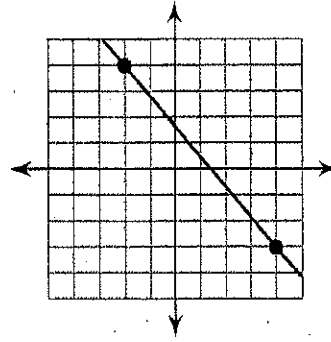
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Find the slope of each line.

1)

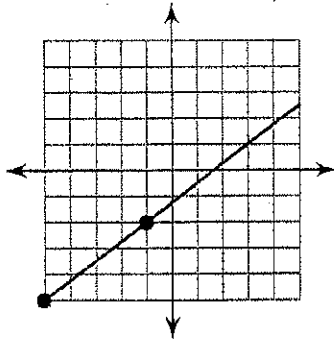


2)

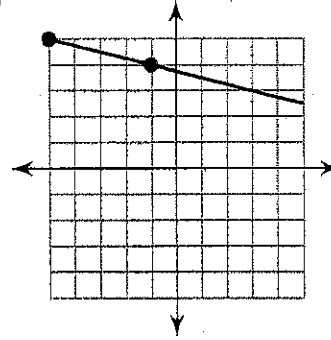


Due to Friday

3)



4)



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

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

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

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

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

9) $(17, -6), (-11, 7)$

10) $(3, 4), (-4, -5)$

11) $(-20, 14), (17, 15)$

12) $(11, -18), (-1, -7)$

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

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

14) $y = \frac{9}{5}x - 5$

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

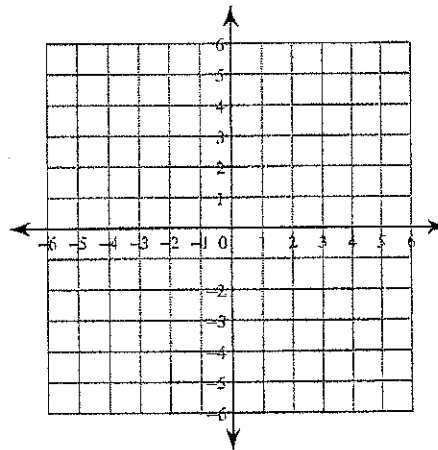
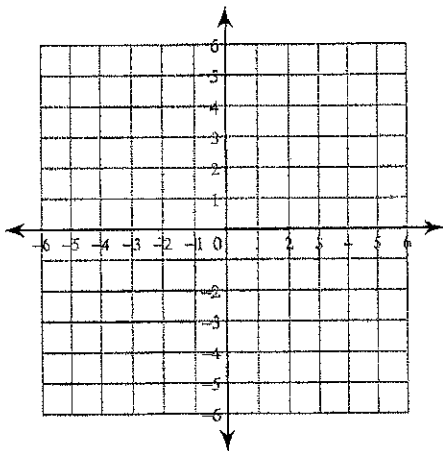
15) $y = -\frac{1}{2}x - 2$

16) $y = -x - 1$

Sketch the graph of each line.

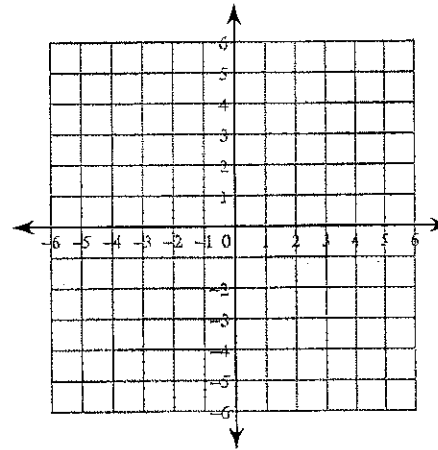
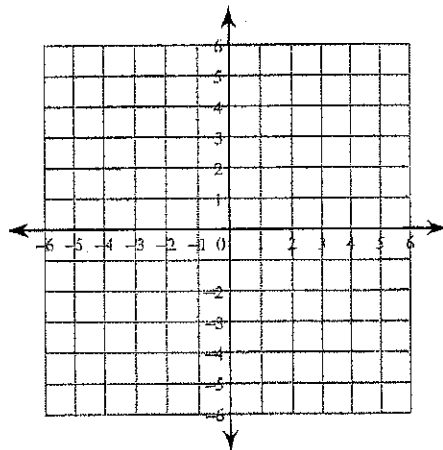
17) $y = \frac{4}{5}x + 2$

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

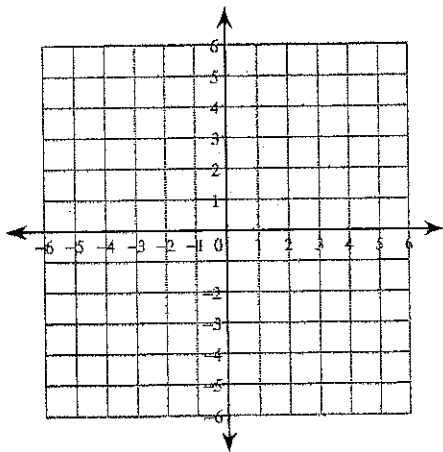


19) $y = \frac{7}{4}x - 4$

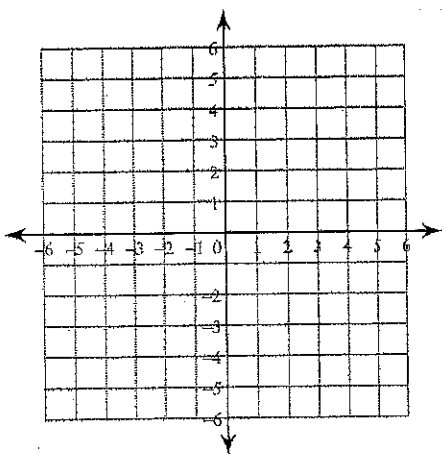
20) $y = \frac{5}{2}x - 5$



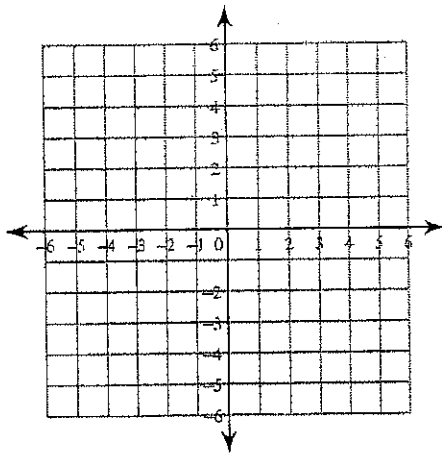
21) $y = \frac{1}{4}x - 4$



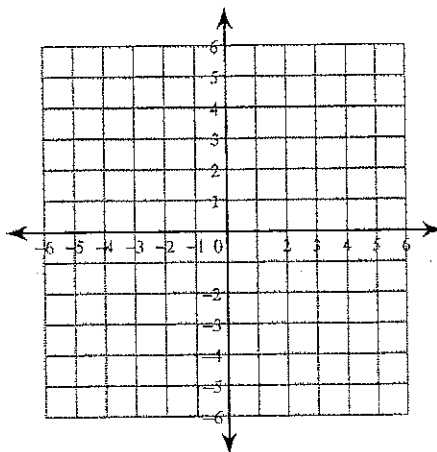
23) x-intercept = -2, y-intercept = -2



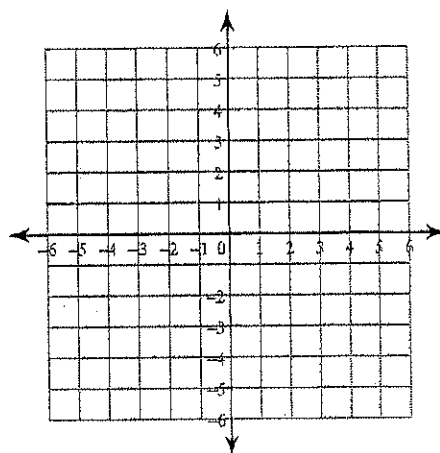
25) $3x + 4y = -12$



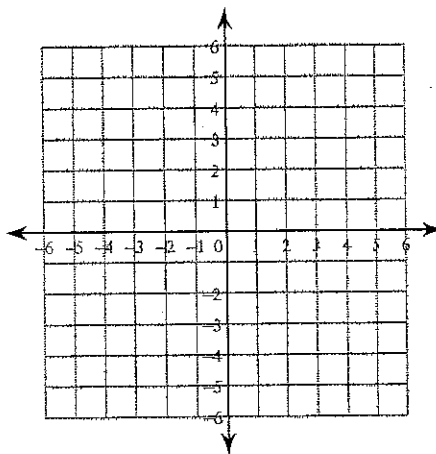
22) $y = -x + 4$



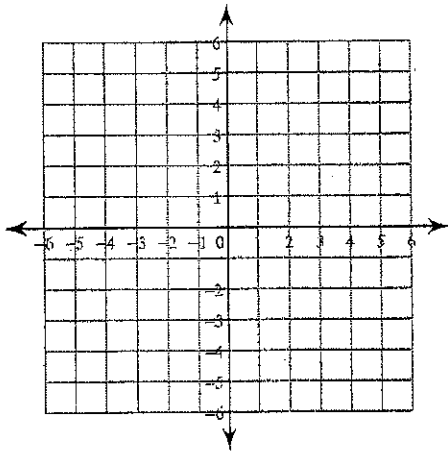
24) x-intercept = 5, y-intercept = 4



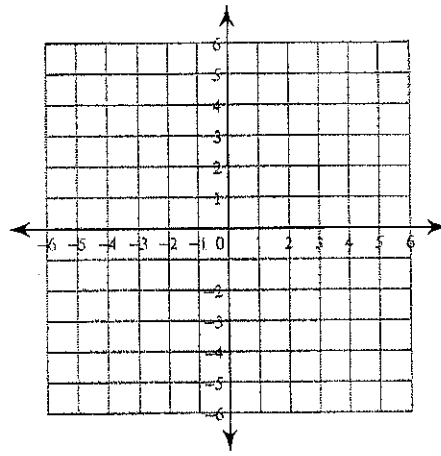
26) $5x + 3y = -6$



27) $x + y = -2$

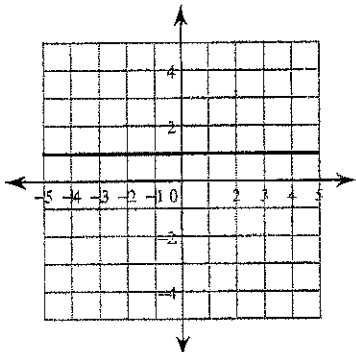


28) $2x + 5y = -10$

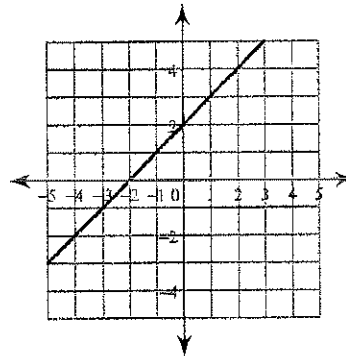


Write the slope-intercept form of the equation of each line.

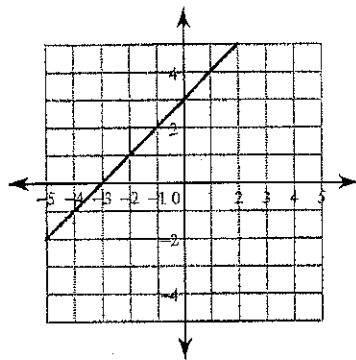
29)



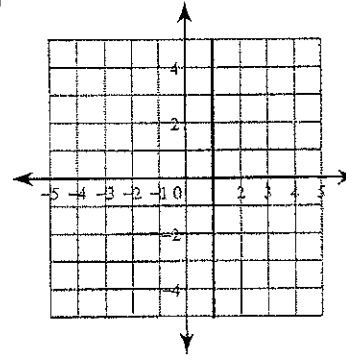
30)



31)



32)



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

43) Slope = -4 , y-intercept = 3

44) Slope = $\frac{1}{2}$, y-intercept = -1

45) Slope = $-\frac{9}{2}$, y-intercept = 4

46) Slope = $\frac{1}{5}$, y-intercept = -4

47) Slope = $\frac{5}{4}$, y-intercept = 1

48) Slope = -5 , y-intercept = 3

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

49) through: $(-1, 1)$, slope = 1

50) through: $(2, 5)$, slope = 2

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

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

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

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

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

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

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

57) through: $(2, 1)$ and $(4, 3)$

58) through: $(0, 2)$ and $(3, 5)$

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

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