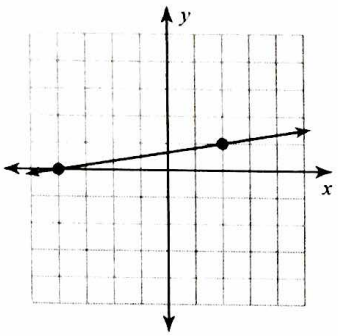
Algebra 1 Name_____ ID: 1

2nd Six Weeks Test Review

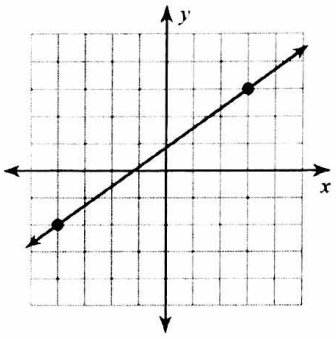
Date_____ Period____

Find the slope of each line.

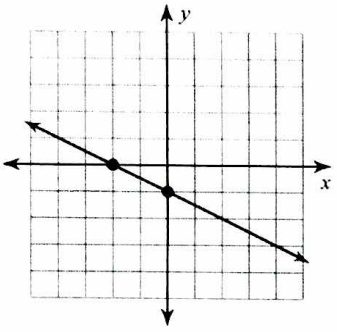
1)



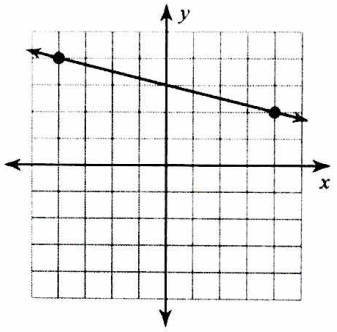
2)



3)



4)



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

5) $(17, -9), (-10, 15)$

6) $(-11, -5), (-20, -12)$

7) $(20, -14), (11, -2)$

8) $(-6, 4), (12, 3)$

Find the slope of each line.

9) $y = -2x + 2$

10) $y = \frac{1}{4}x - 5$

11) $y = 2$

12) $y = 5x + 5$

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

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

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

15) Slope = –4, y-intercept = –5

16) Slope = 3, y-intercept = –4

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

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

18) through: $(-5, 0)$, slope $= -\frac{4}{5}$

19) through: $(4, 0)$, slope $= -\frac{1}{4}$

20) through: $(-1, 4)$, slope = –9

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

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

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

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

24) through: $(-5, 0)$, slope $= -\frac{3}{2}$

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

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

26) through: $(3, 2)$ and $(3, 5)$

27) through: $(2, -1)$ and $(0, 3)$

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

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

29) $3x - 4y = -16$

30) $3x - 2y = -12$

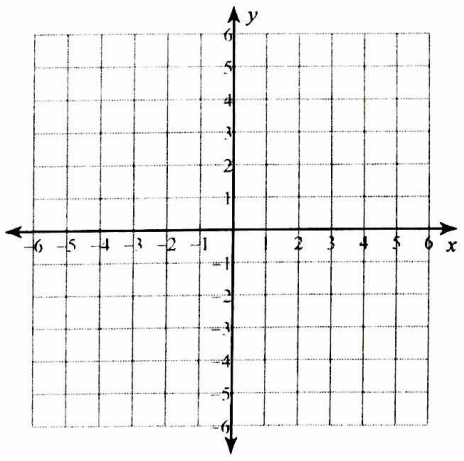
Write the standard form of the equation of each line.

31) $y = -5x + 5$

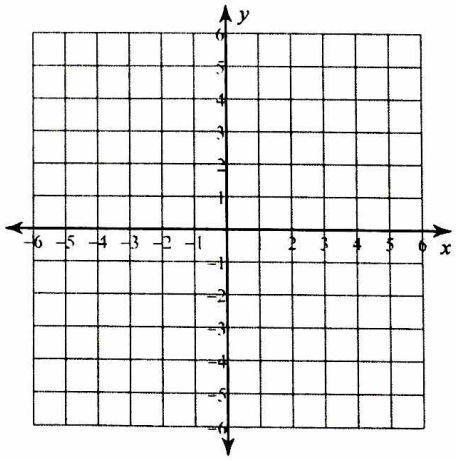
32) $y = \frac{2}{5}x - 4$

Sketch the graph of each line.

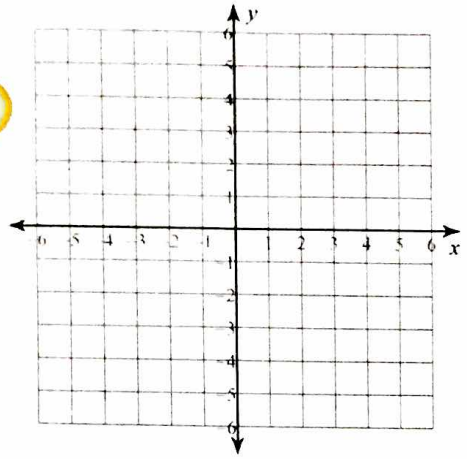
33) $y = -x - 5$



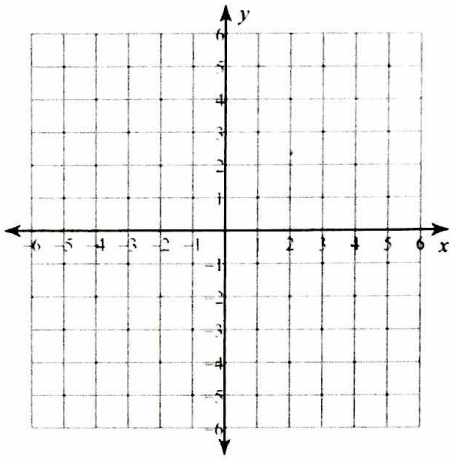
34) $y = -\frac{2}{3}x + 1$



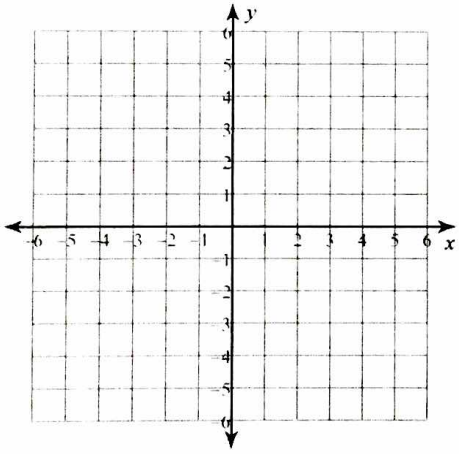
35) $y = -x - 2$



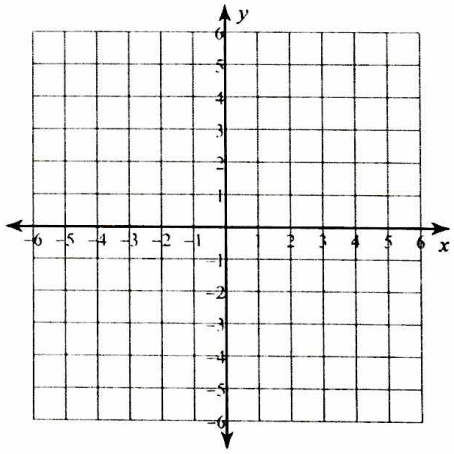
36) $y = \frac{7}{2}x - 4$



37) x-intercept = –4, y-intercept = 4



38) x-intercept = 4, y-intercept = 4



Answers to 2nd Six Weeks Test Review (ID: 1)

1) $\frac{1}{6}$

2) $\frac{5}{7}$

3) $-\frac{1}{2}$

4) $-\frac{1}{4}$

5) $-\frac{8}{9}$

6) $\frac{7}{9}$

7) $-\frac{4}{3}$

8) $-\frac{1}{18}$

9) -2

10) $\frac{1}{4}$

11) 0

12) 5

13) $y = -\frac{9}{2}x + 4$

14) $y = \frac{1}{5}x + 1$

15) $y = -4x - 5$

16) $y = 3x - 4$

17) $y - 1 = -\frac{3}{5}(x + 5)$

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

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

20) $y - 4 = -9(x + 1)$

21) $y = \frac{3}{5}x - 2$

22) $y = \frac{3}{4}x$

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

24) $y = -\frac{3}{2}x - \frac{15}{2}$

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

26) $x = 3$

27) $y = -2x + 3$

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

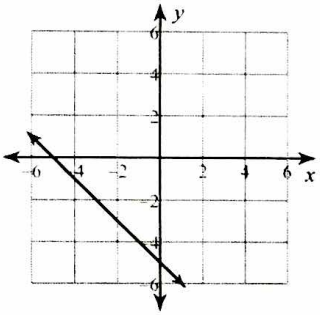
29) $y = \frac{3}{4}x + 4$

30) $y = \frac{3}{2}x + 6$

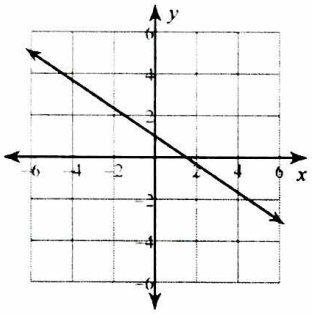
31) $5x + y = 5$

32) $2x - 5y = 20$

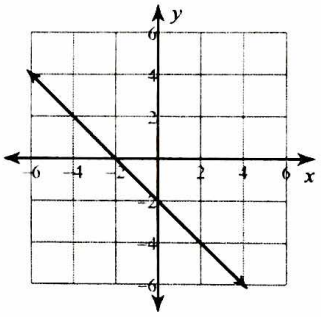
33)



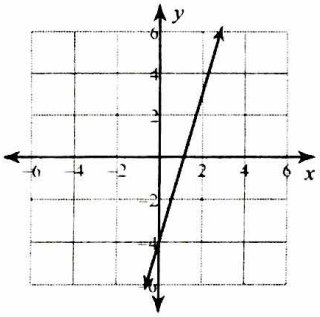
34)



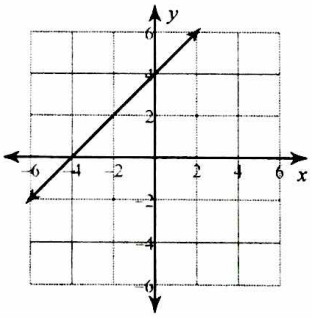
35)



36)



37)



38)