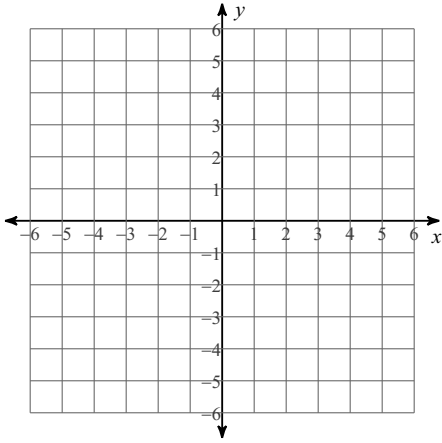


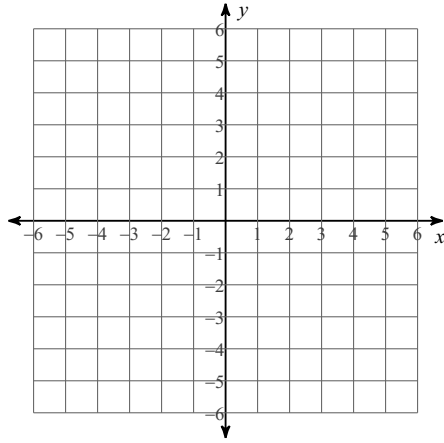
SM2-A HW #4-13 (Unit 4 Test Preview HW)

Graph each equation.

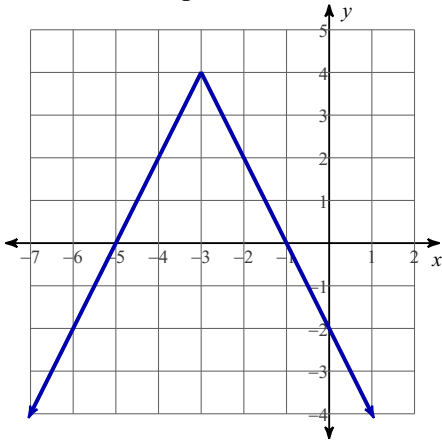
1) $y = |x - 2| - 2$



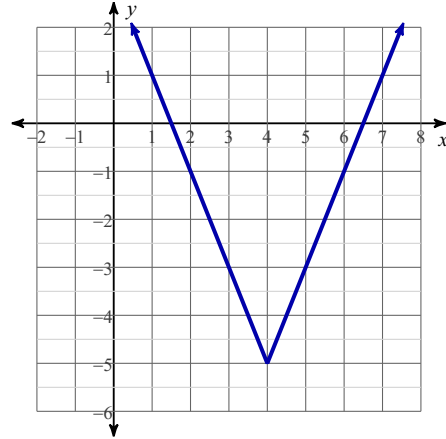
2) $y = 3|x - 1| - 3$



3) What is the equation that has been graphed?

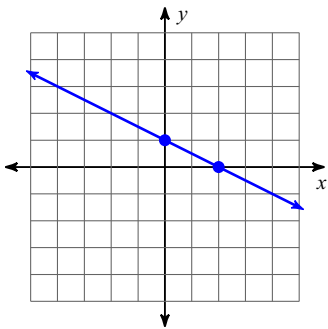


4) What is the equation that has been graphed?



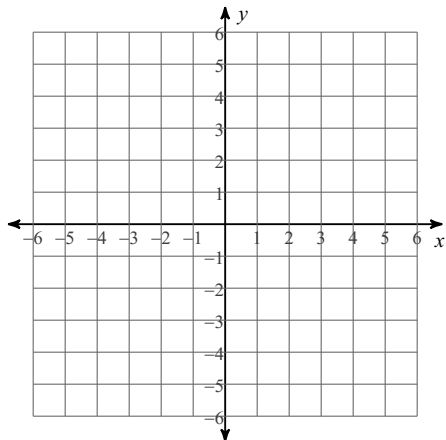
Find the slope of each line.

5)

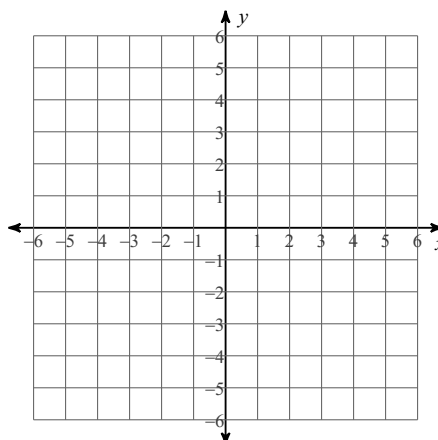


Sketch the graph of each line.

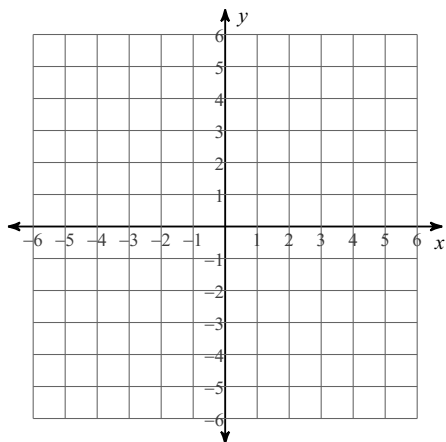
6) $y = -2x - 5$



7) $y = \frac{1}{5}x$

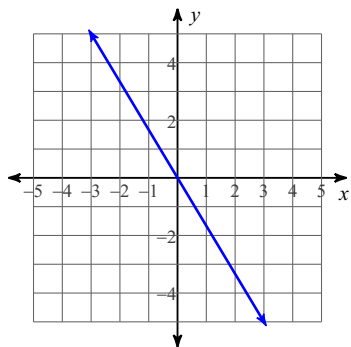


8) $x = -1$

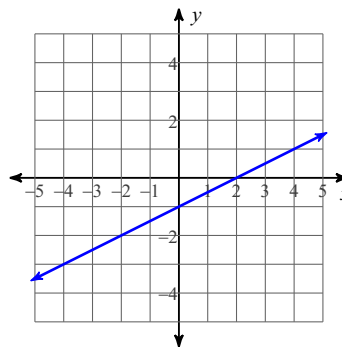


Write the slope-intercept form of the equation of each line.

9)



10)



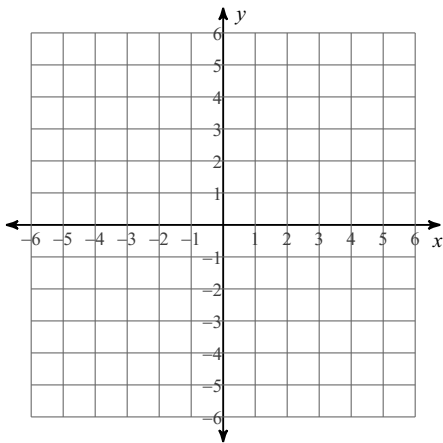
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, -1)$ and $(2, 5)$

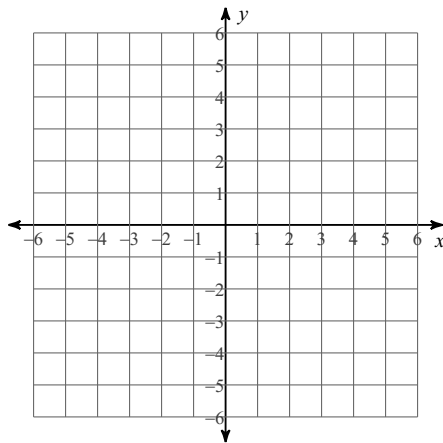
12) through: $(-4, -5)$ and $(4, -5)$

Sketch the graph of each line.

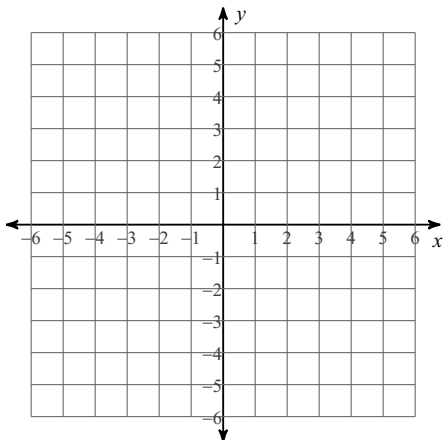
13) x -intercept = 2, y -intercept = 1



14) $y = -1$



15) $2x - y = -3$



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

16) $2x - y = 20$

17) $x + y = -3$

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

18) through: $(-1, 5)$, perp. to $y = \frac{1}{4}x$

19) through: $(-3, -4)$, perp. to $y = -\frac{1}{3}x + 3$

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

21) through: $(-2, 0)$, parallel to $y = \frac{1}{2}x - 3$

22) The area of a rectangle is 240 square meters. If the width is 6 meters:

- a) What is the length
- b) What is the perimeter?

23) The area of a trapezoid is 180 square feet. If the height is 10 feet and one base is 6 feet, what is the length of the other base?

$$A = h \cdot \frac{b_1 + b_2}{2}$$

24) The cost of hiring a plumber, C , is a function of the time spent on the job, 't', in hours. If the plumber charges a fee of \$30 plus \$25 per hour.

- a) What is the equation that models this situation?
- b) If you hire her for 11 hours, how much will it cost you?

25) A customer bought 7 hamburgers and 8 drinks and paid a total of \$36.25

What is the equation that models this situation?