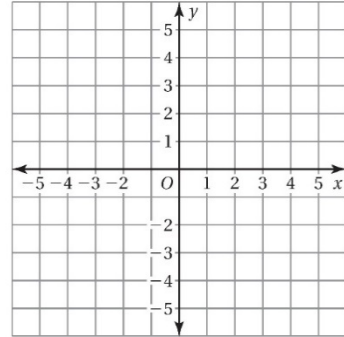
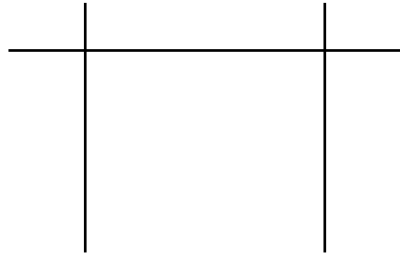


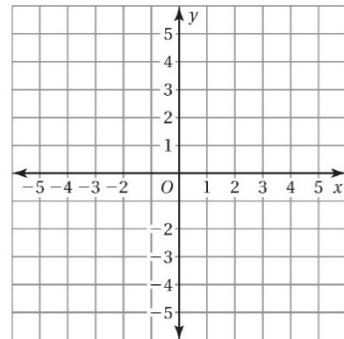
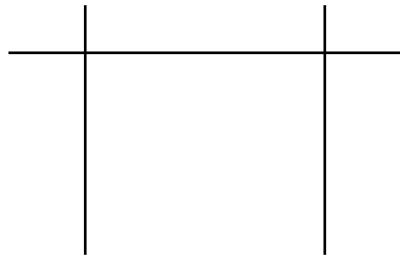
Chapters 4 & 6 Review

Graph both linear equations on the coordinate plane on the right. Make sure you use an input/output table with at least 3 ordered pairs for each.

1) $y = 3x - 4$



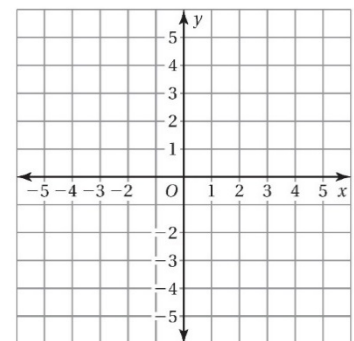
2) $y = \frac{1}{2}x - 3$



Graph both of the equations on the coordinate plane on the right. You may make an input/output table if you wish.

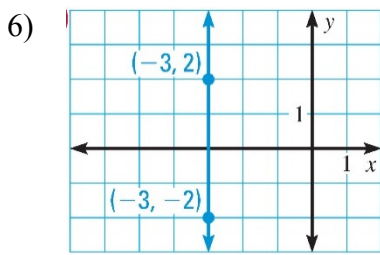
3) $y = -3$

4) $x = 1$

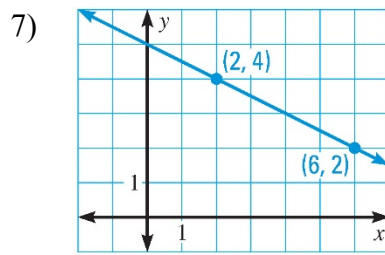


5) The slope of any line can be written as a ratio that represents its _____ over its _____.

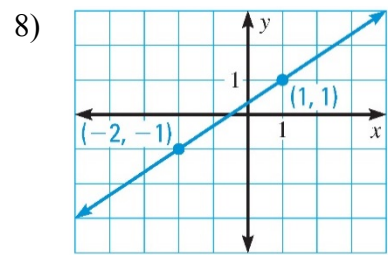
Tell whether the slope of the line is positive, negative, zero, or undefined. Then find the slope if it exists.



Kind of slope: _____
 $m =$ _____



Kind of slope: _____
 $m =$ _____



Kind of slope: _____
 $m =$ _____

9) The slopes of parallel lines are the _____.

10) Find the slope of the line that passes through the points. Write your answer in simplest form.

a) $(-1, 11)$ and $(2, 10)$ $m =$ _____

b) $(-2, 0)$ and $(4, 9)$ $m =$ _____

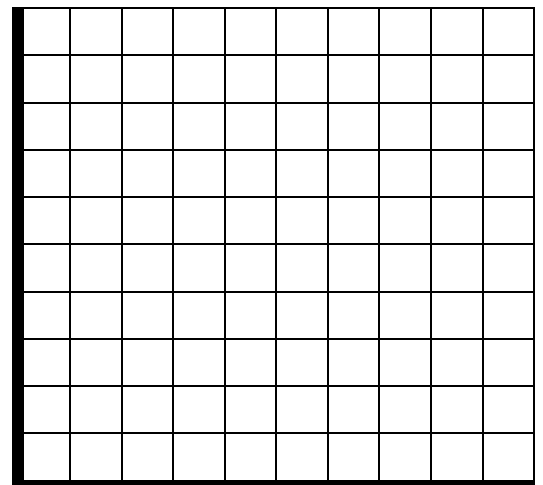
c) $(-5, 2)$ and $(-5, 7)$ $m =$ _____

d) $(4, 6)$ and $(-2, 6)$ $m =$ _____

11) Jenny wanted to buy a bunch of hot cocoas for her friends. The number y cocoas you get from x dollars is represented by the equation $y = 3x$.

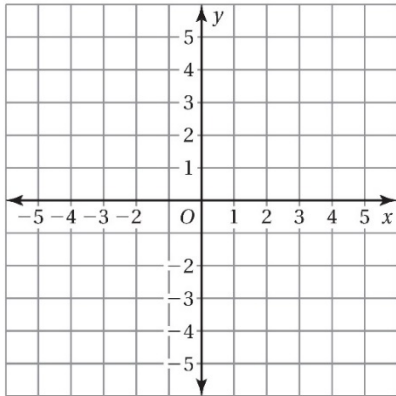
- a) Make sure to:
- Label you axis.
 - Use at least 4 ordered pairs.

b) Interpret what the slope means in this problem

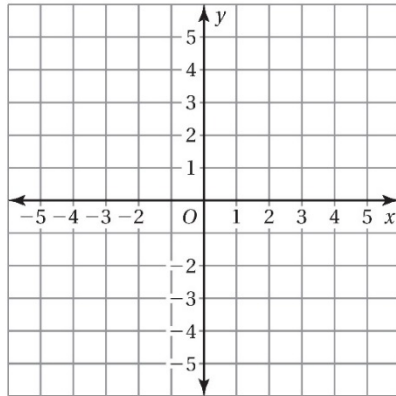


Graph each equation using the slope and the y-intercept only.

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

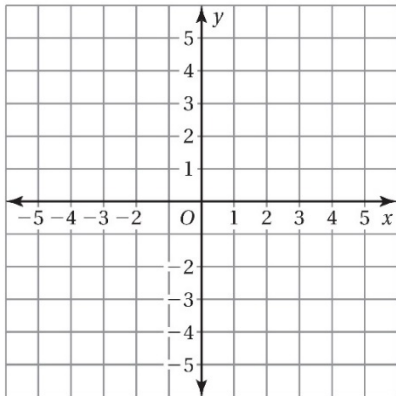


13) $y = -4x + 5$

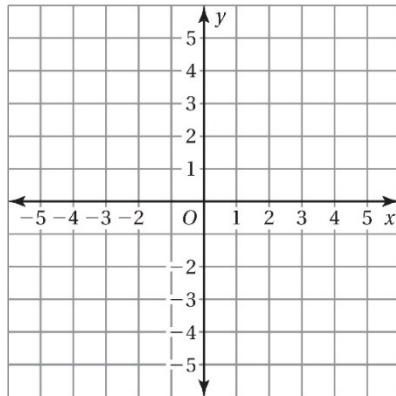


Solve each equation in slope-intercept form. Then graph.

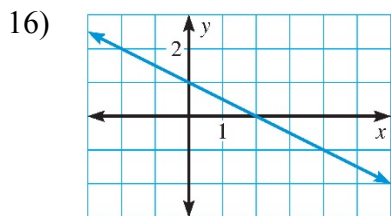
14) $2x + y = 3$



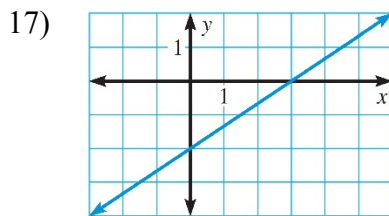
15) $6x - 3y = -9$



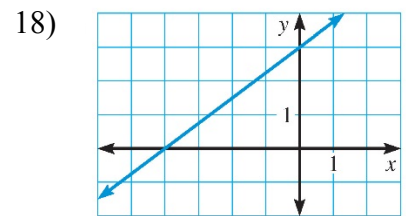
Identify the x-intercept and the y-intercept of the graph.



x-intercept : _____
y-intercept : _____



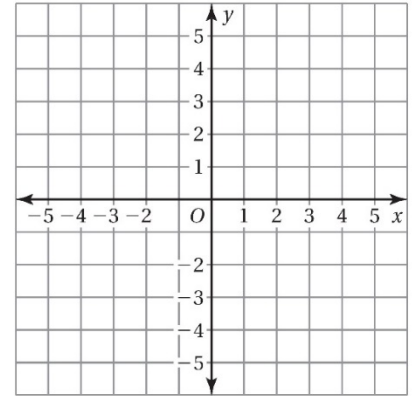
x-intercept : _____
y-intercept : _____



x-intercept : _____
y-intercept : _____

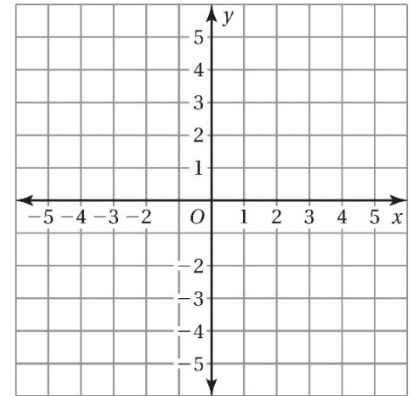
Find the x -intercept and the y -intercept of each equation, and then graph it.

19) $-4x + 5y = 20$



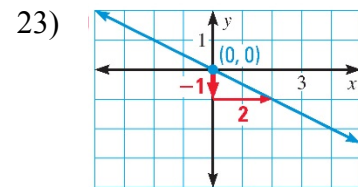
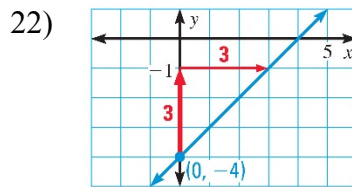
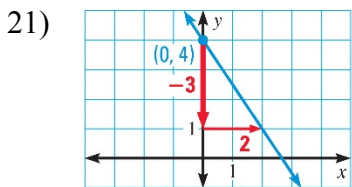
x -intercept : _____ y -intercept : _____

20) $6x - 3y = 12$



x -intercept : _____ y -intercept : _____

Write an equation of the line shown in slope-intercept form.



Write an equation of the line shown in slope-intercept form that passes through the points.

24) $(-4, -1), (0, 5)$

25) $(0, -3), (1, -5)$

Write in point-slope form an equation of the line that passes through the given point and has the given slope.

26) $(2, 2); m = -1$

27) $(-3, 5); m = -\frac{5}{7}$

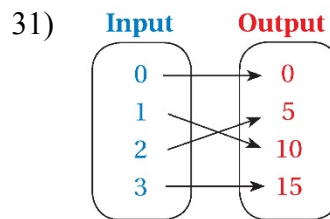
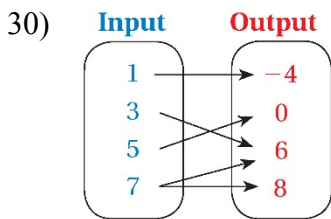
Write in slope-intercept form an equation of the line that passes through the given points.

(Clue: Is the y -intercept given?)

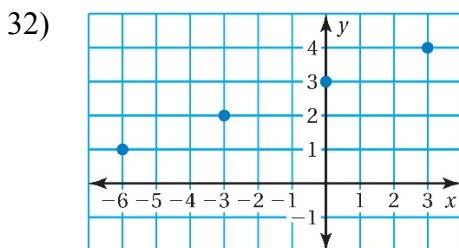
28) $(2, 1), (3, 5)$

29) $(-1, 5), (3, -3)$

Determine whether the relation is a function. **Explain.**



Use the graph or table to write a linear function (equation) that relates y to x .



33)

x	0	5	10	15
y	50	40	30	20