Chapter 5 Review

Directions: Complete the following sets of problems.

Complete the following tables of values of y for each equation given:

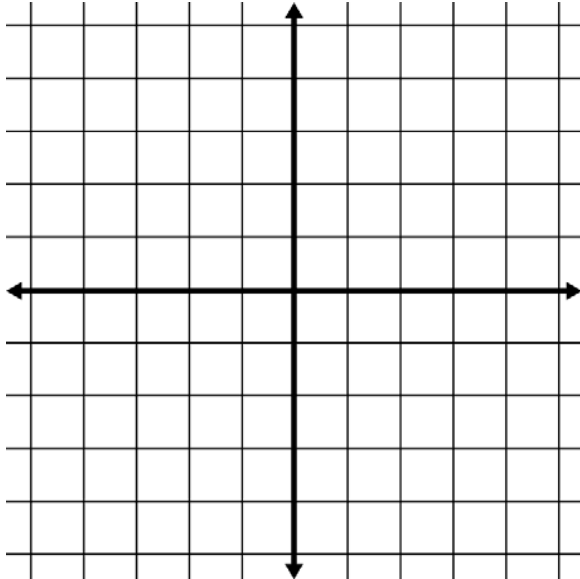1. **Equation: y = 2x - 8**

x	2	4	6
y	_	_	_

2. **Equation: y = 4x -12**
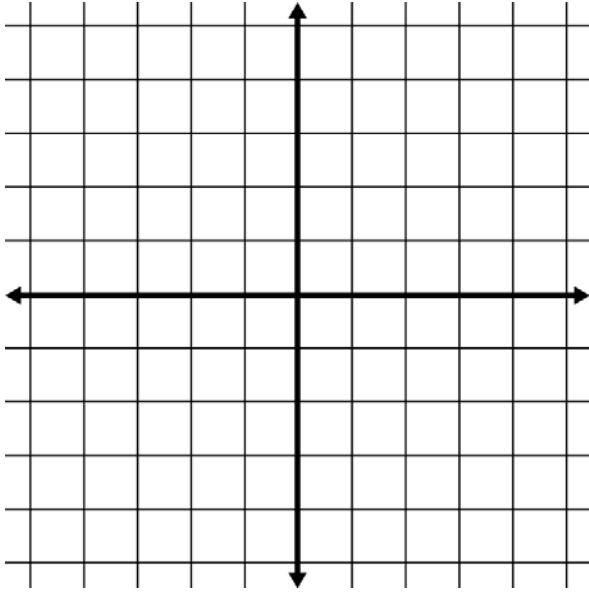
x	4	3	2
y	_	_	_

Find the y values that will make each ordered pair a solution to the equations given:
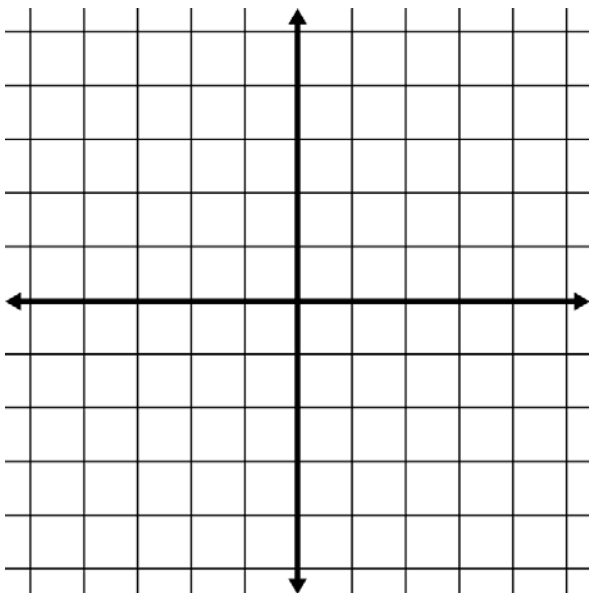
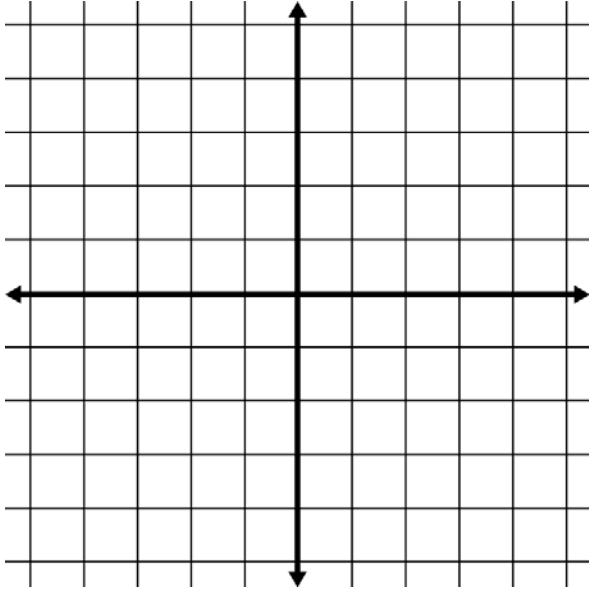3. $2x - 3y = 2$ (1, y) (-1/2, y)

4. $7x + 3y = -4$ (-4, y) (2, y)

Now, find the slope of a line containing the given coordinate points.
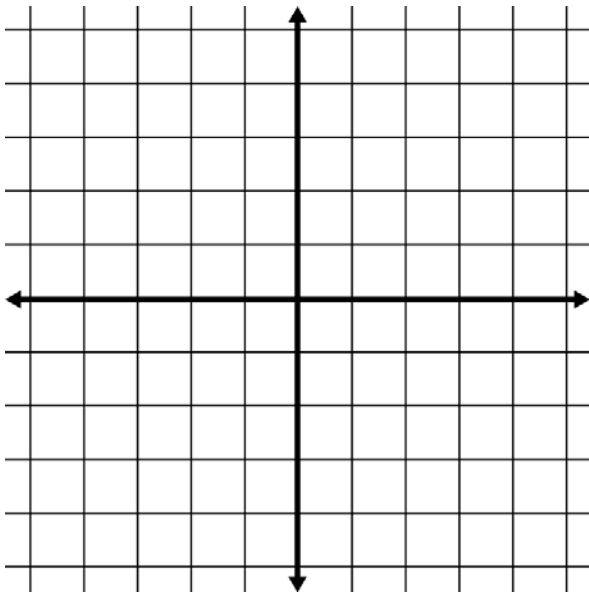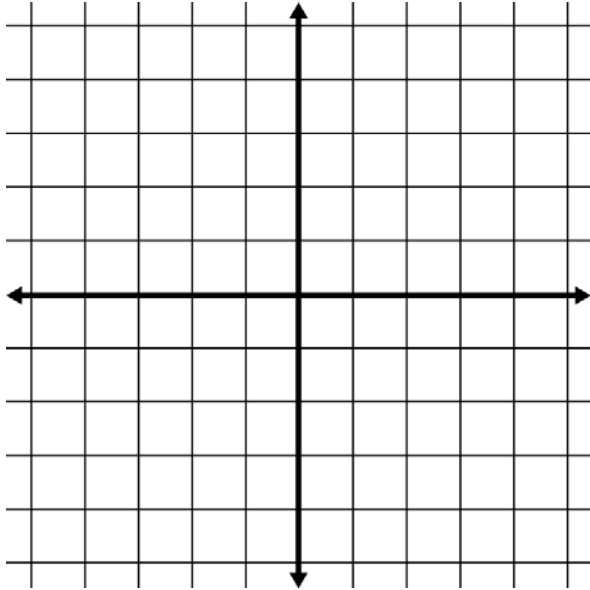
5. (4, 7) and (2, 3)

6. (4, 0) and (0, 3)

Find the slope of a line that is parallel to the line containing the following coordinate points.
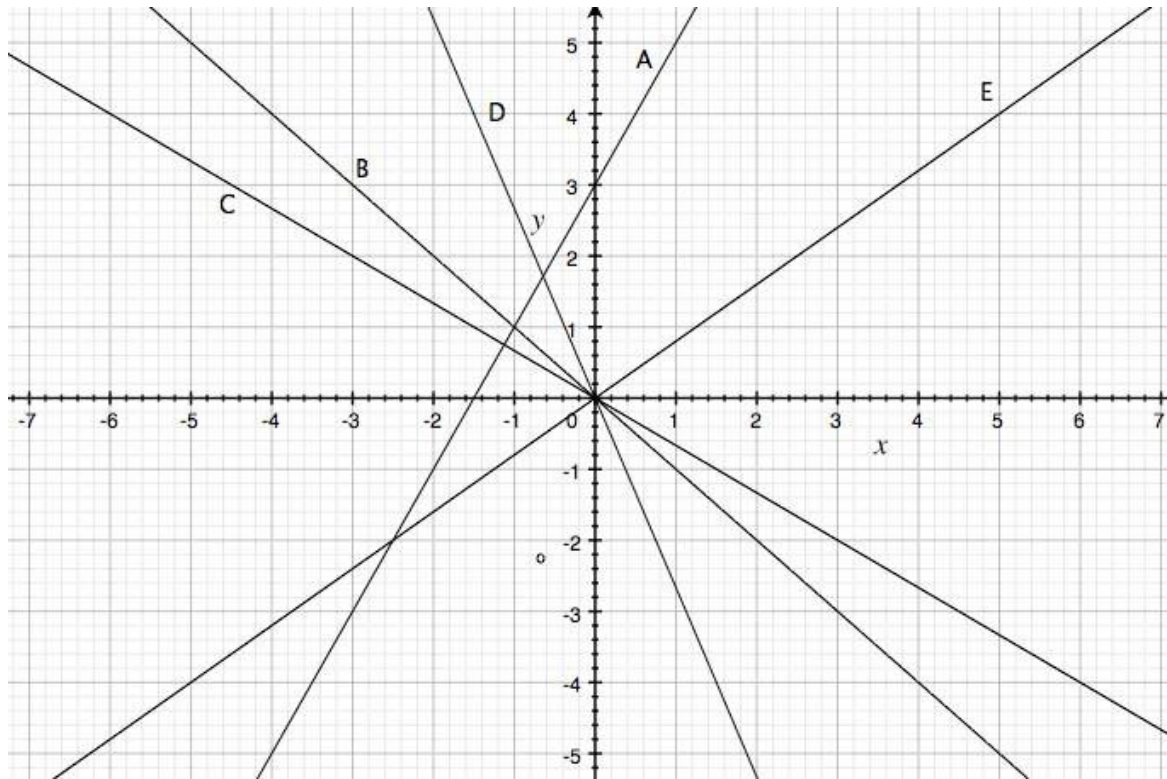
7. (-1, 1) and (2, -2)

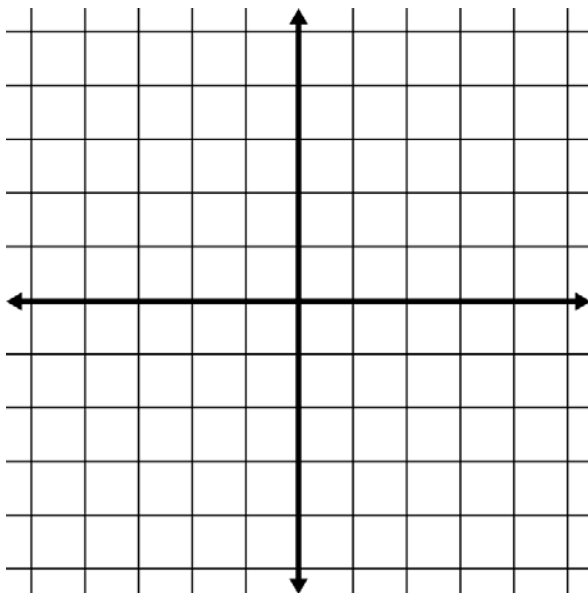**Find the slope of a line that is perpendicular to the line containing the following coordinate points.**

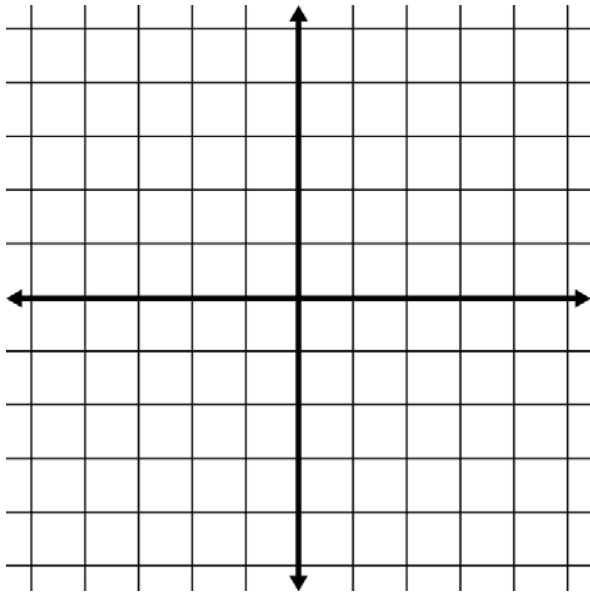8. (0, 0) and (2, 1)

Find the slope for each of the letters listed that represent each of the labeled lines on the graph below.
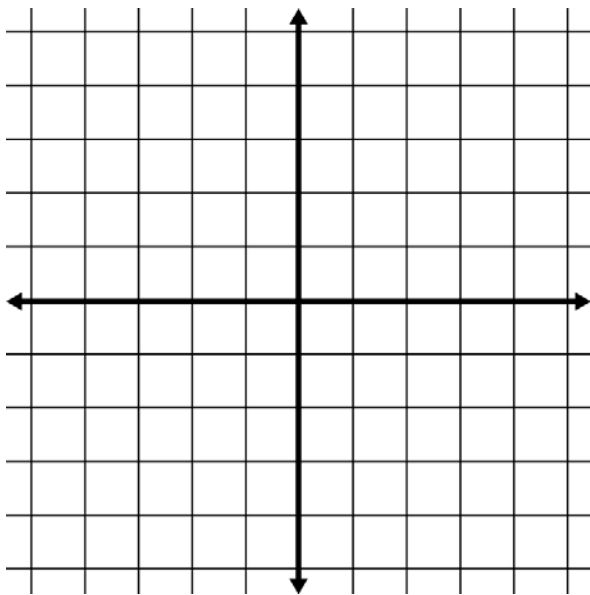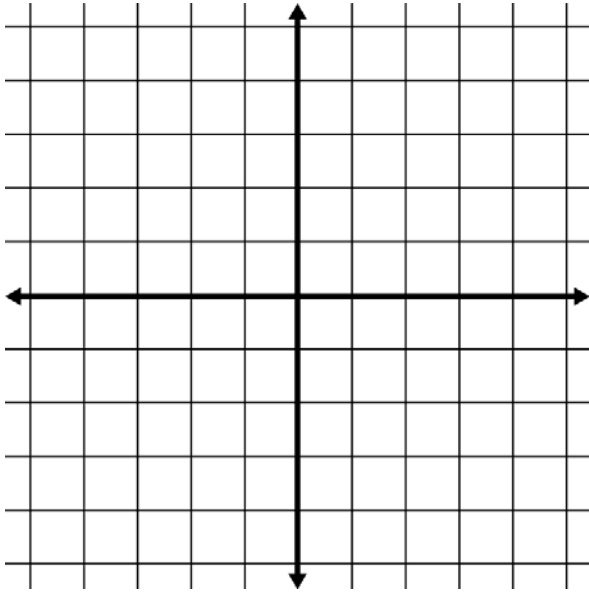

9. B:

10. C:

Find the slope and y-intercept of each line based on the equations given. Label your answers according to the variable that is represented.
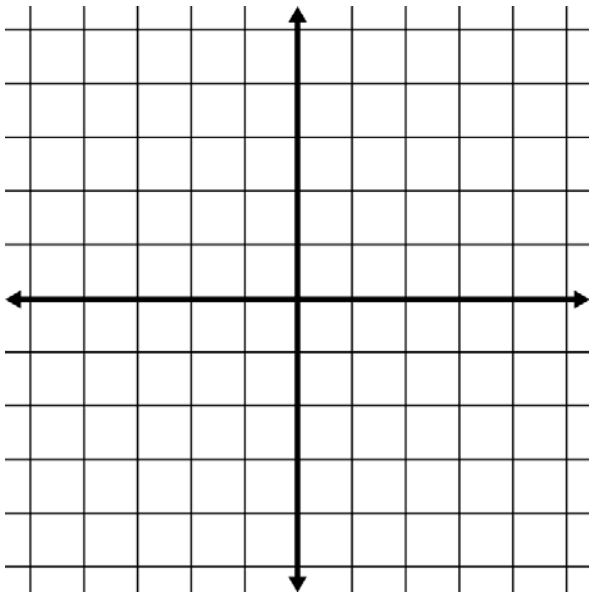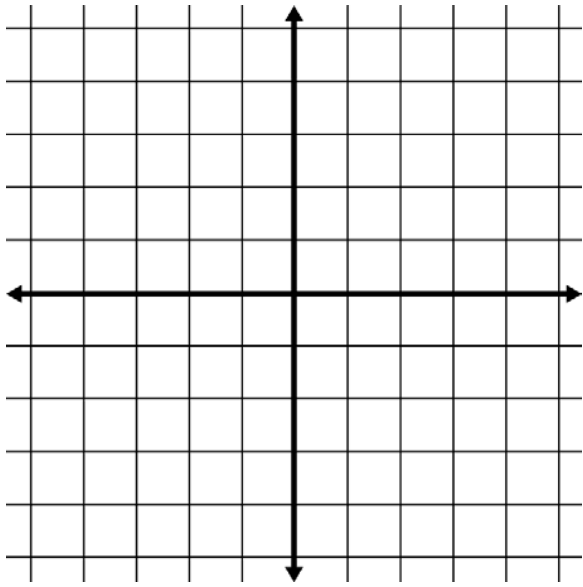
11. y = -1/3x

12. $y = 3$

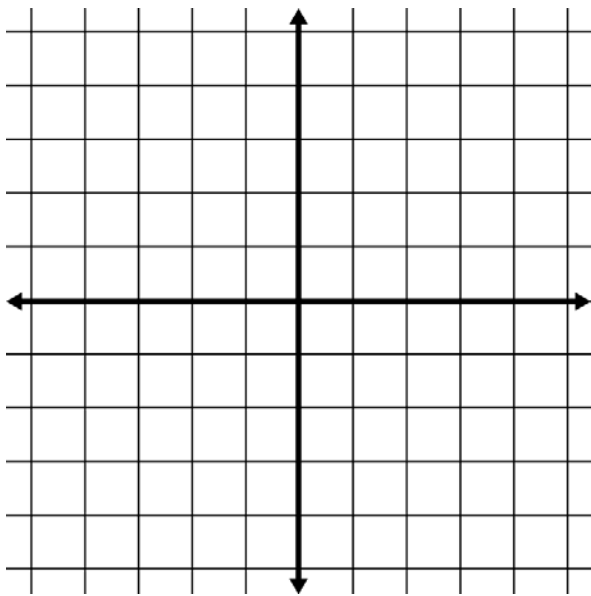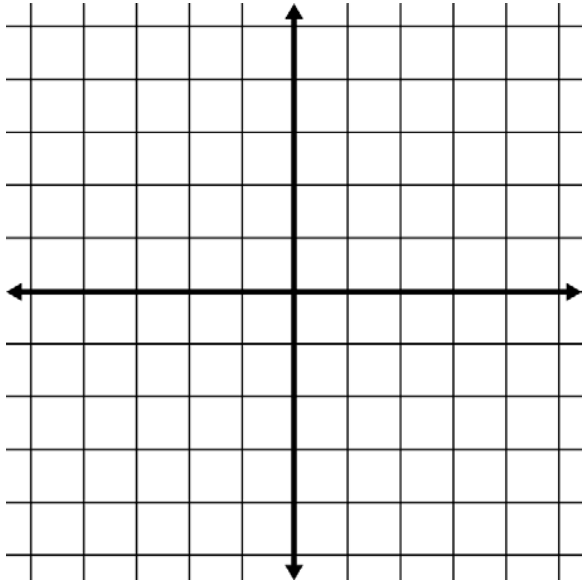Find the slope and y-intercept of the line, given the equations below.

13. $5x - 2y = 6$

14. $2y - (3x + 2) = 0$

15. $6x + 2(3 - y) = 0$
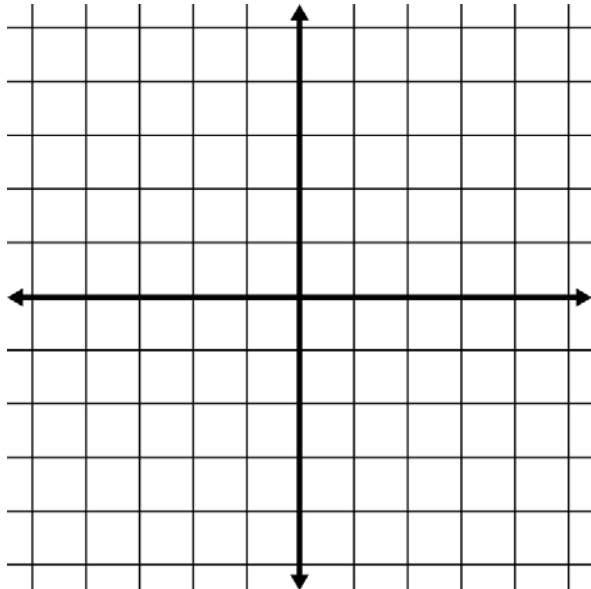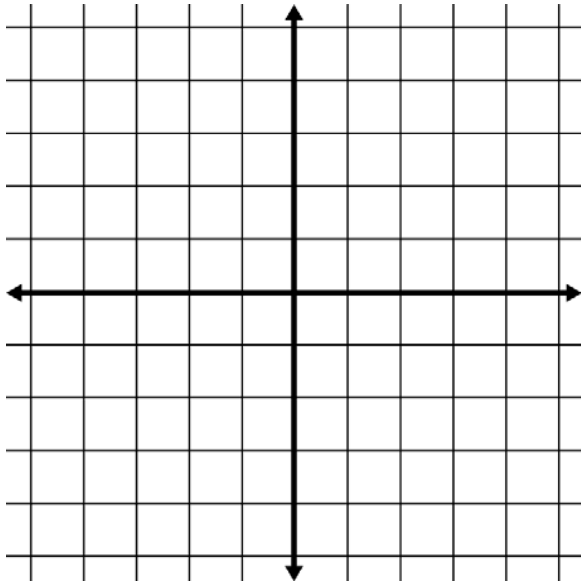
16.$2(3 - 2x) = 4(2 + y)$

Write an equation in slope-intercept form for the line containing the given coordinate point that has the given slope.
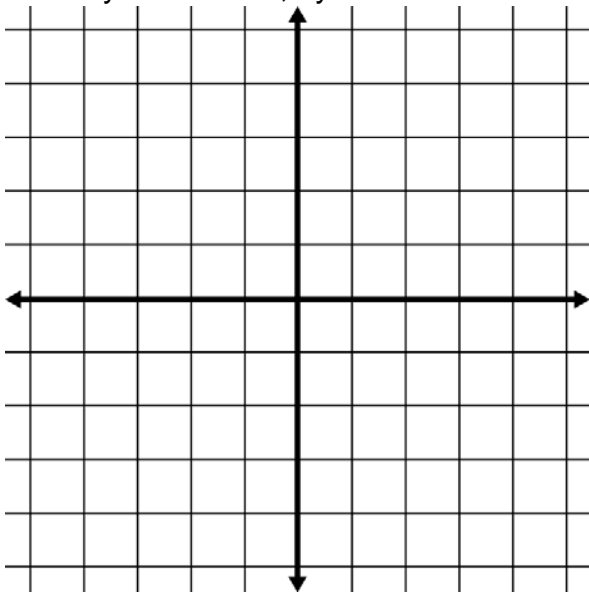
17. $(2, 3)$ m = -2

18. (-2, 2) m = ½

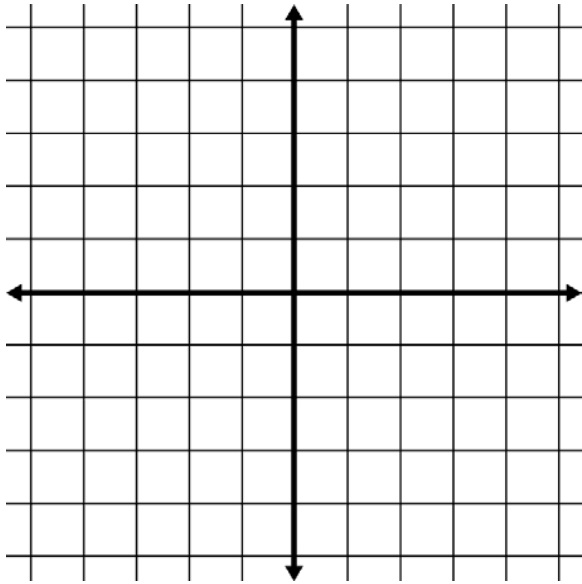**Tell whether the two equations are representations of lines that are parallel or perpendicular:**
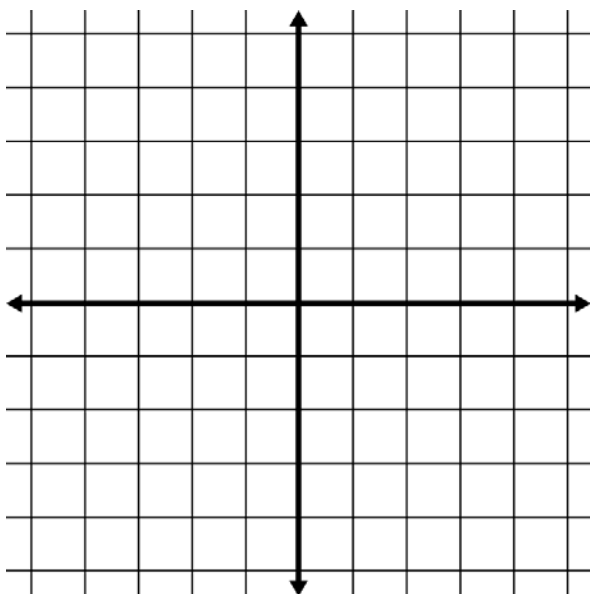
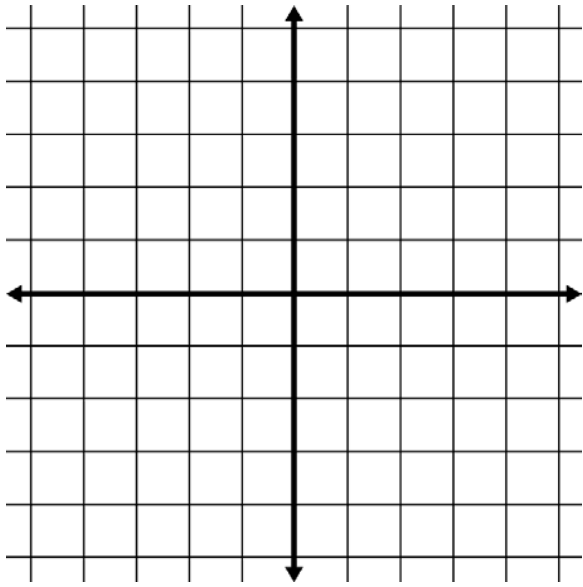19. y = -3/4x − 5; 4y = -3x + 2

20.2y = -3x; y = 2/3x +1

Use the point-slope intercept form to write an equation for the line containing the coordinate points and the slope given.
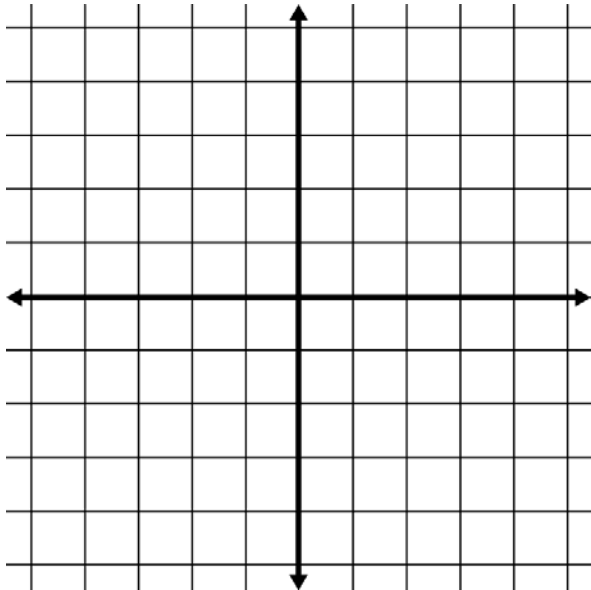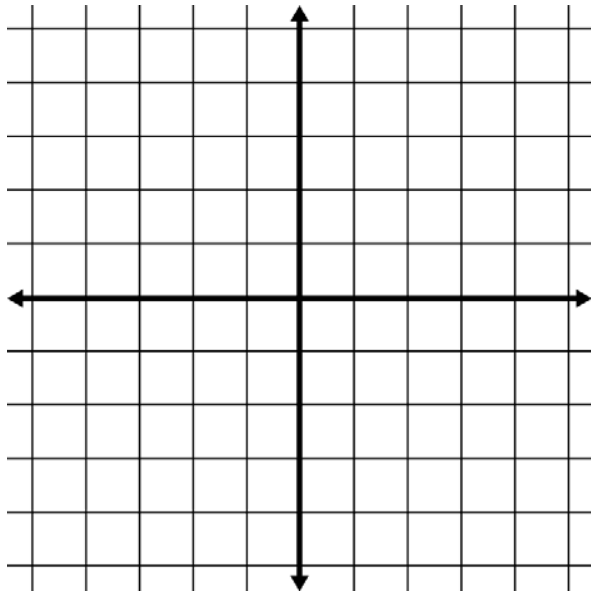
21. m = 1 (0,4)

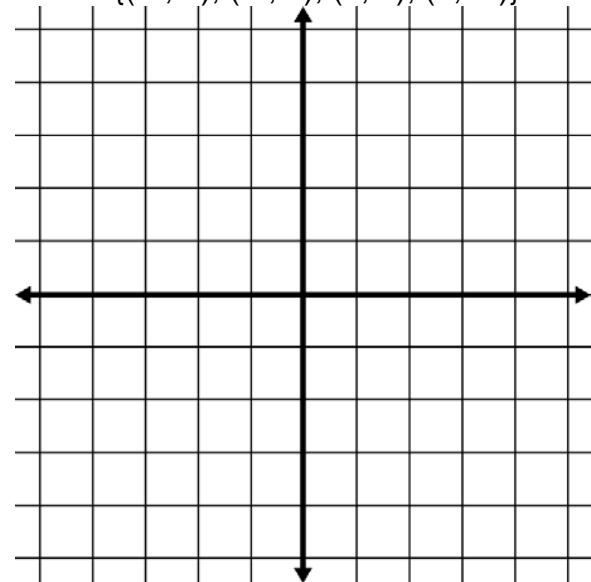22. m = -1 (-1, 3)

23. m = -5 (5, -5)

Write an equation for a line given the following points.
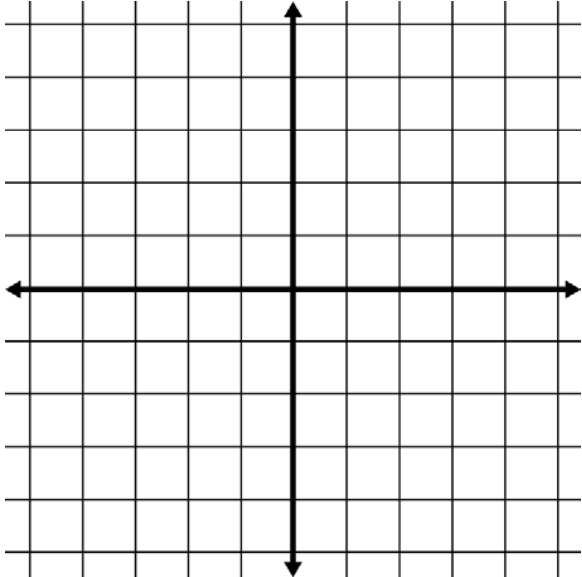
24. (4, 7) and (2, 3)

List the domain and ranges for each relation, then tell whether it is or is not a function based on the information given.

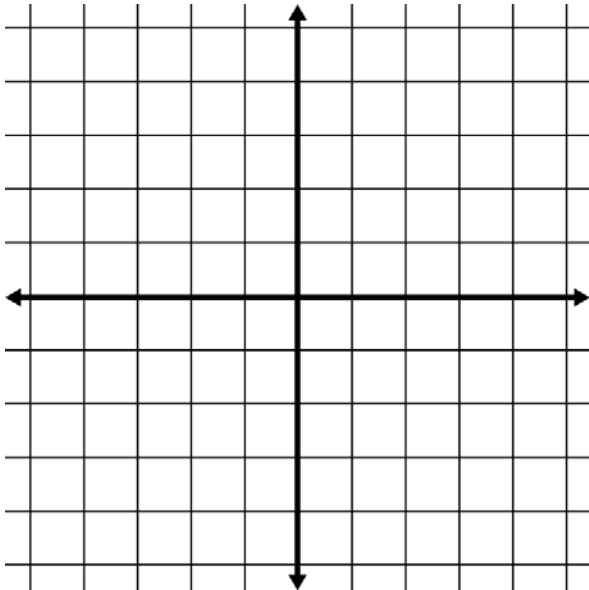25. {(-1, 2), (-2, 5), (6, 3), (2, -2)}

Use the function notations to solve for the equation $f(x) = 5/(x^2 - 1)$ based on the values of x given below.

26. $f(0) =$

27. $f(-4) =$

28. $f(-4)=$