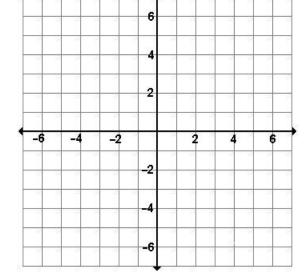
PROPERTIES OF LINES

1. Graph each of the following lines on the same set of axes.



b)
$$y = 3x + 2$$

2. What is the slope of each of the lines? b)



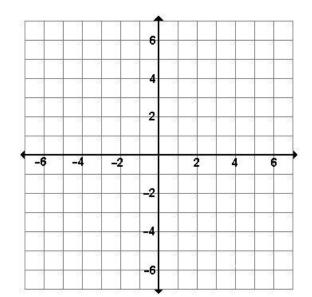
3. What is the y-intercept of each line? a) b)

4. Graph each of the following lines on the same set of axes.

a)
$$v = -2x + 1$$

a)
$$y = -2x + 1$$
 b) $y = -2x - 3$

5. What is the slope of each of the lines? b) a)



- 6. What is the y-intercept of each line? a)
- 7. What word best describes each pair of lines?

8. Graph each of the following lines on the same set of axes.

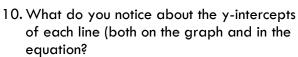


b)
$$y = 4x - 3$$

9. What is the slope of each of the lines?

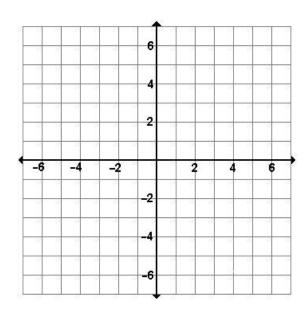


b) m









11. Use the lines listed below to answer the following

a)
$$y = 2x - 4$$

b)
$$y = -3x + 5$$

c)
$$y = 2x$$

d)
$$y = -3x - 1$$

i) Which lines are parallel ii) Which lines have the same y-intercept

Summary

In the equation $y = \mathbf{m}x + \mathbf{b}$:	
The m is the which dete	ermines the of the line.
Ignoring the sign on the coefficient of x, the	greater the coefficient, the
the line.	
If the line rises to the right then it will have a	slope. If it falls
down to the then it will	have a negative slope.
The b is the and it determines where the line crosses the	
Parallel lines have the	_ slope but a different
A horizontal line has a slope of	which means the value for

• A **vertical line** has an ______ slope which means the value for _____