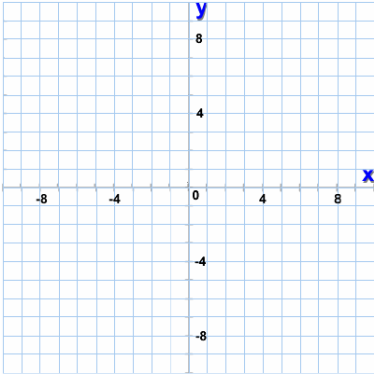


Graphing Linear Equations

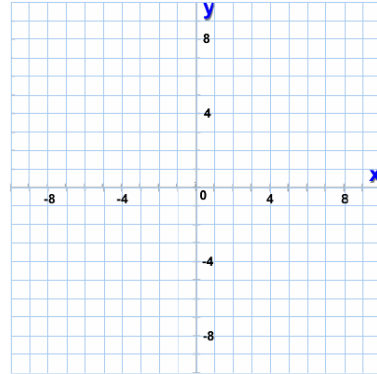
Graphing

1) Graph:

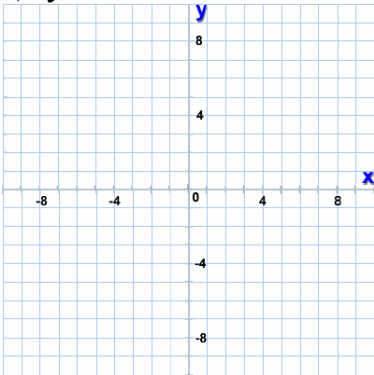
a) $x = 3.5$



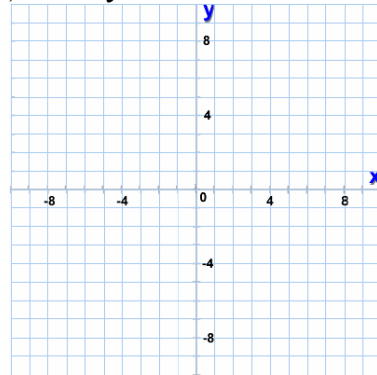
b) $y = -5$



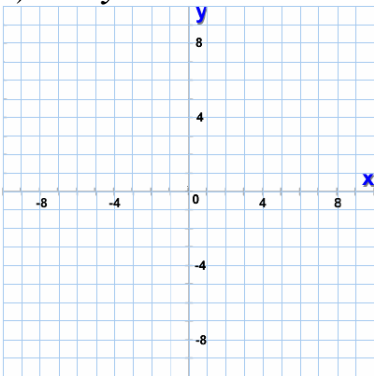
c) $4y = 12$



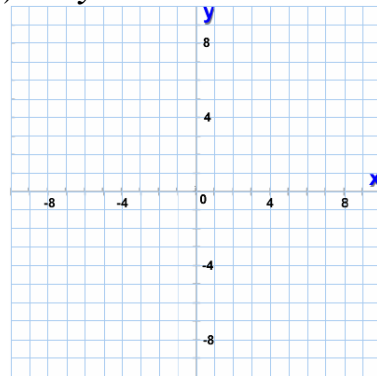
d) $3x + 4y = 12$



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



f) $4x - y = -4$



2) How many points are needed to determine a line? _____

3) What is the y-axis intercept of the line $x = -4$? _____ Explain?

4) For what type of lines is the quick-graph method using intercepts not applicable?

Slope

5) Calculate the slope of the line connecting the following two points:

a) (0, 4) and (6, 0): $m =$ _____ b) (2, 3) and (-6, -2): $m =$ _____

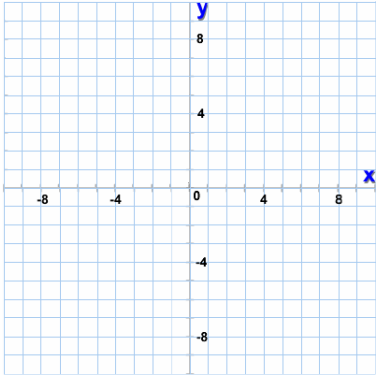
c) (-2, -2) and (-4, -4): $m =$ _____ d) (-4, 4) and (-3, -4): $m =$ _____

6) What type of line has a slope of zero? Give an example?

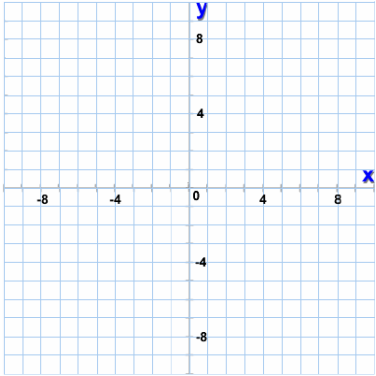
7) What type of line has a slope that is undefined? Give an example?

8) Graph the line with the given slope (m) and intercept (b):

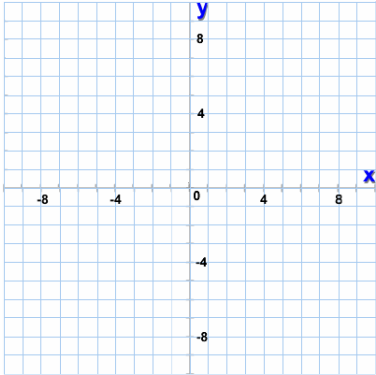
a) $m = 1$ and $b = 3$



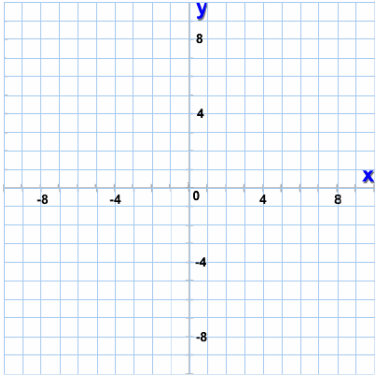
b) $m = -2$ and $b = -1$



c) $m = 5$ and $b = -5$



d) $m = -5$ and $b = 2$



9) What point does the line, $y = -3x + 2$, intercept the x-axis? _____

10) If a ramp rises 1 foot for every 4 feet it runs, how many feet will it run before it rises 5 feet?