

Graphing Linear Equations in Two Variables

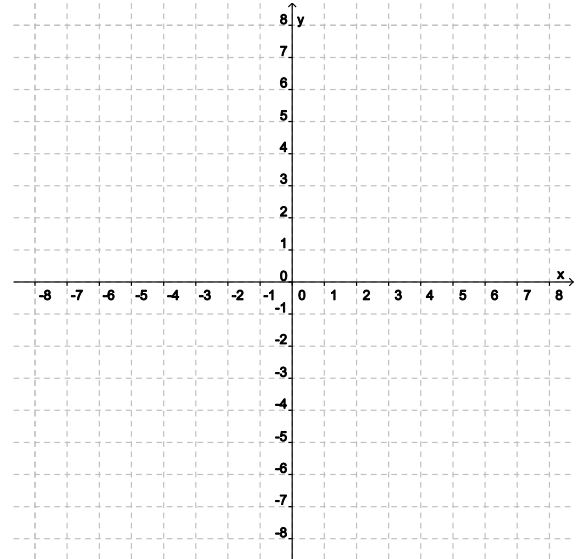
The _____ of an equation shows all the solutions to the equation.

The graph of a linear equation is a line. You only need two points to graph a line.

Ex 1.

Graph $4x - 5y = 20$.

x	y	(x, y)



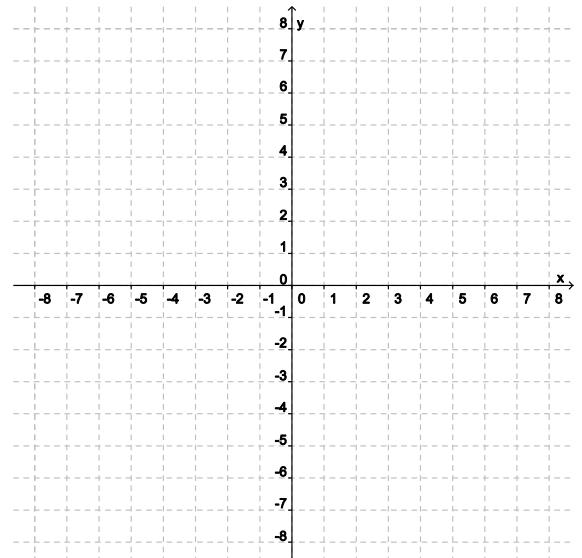
By plugging in $y = 0$, we found the _____.

By plugging in $x = 0$, we found the _____.

Ex 2.

Graph $y = -\frac{3}{2}x + 3$.

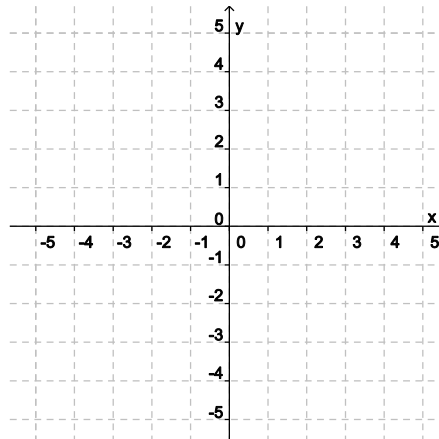
x	y	(x, y)



Ex 3.

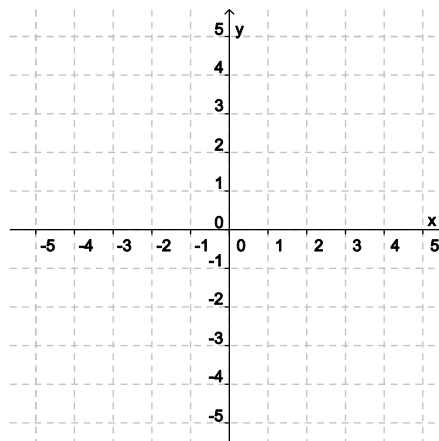
Graph $y = 3$. (Think: all points where y -value is 3)

x	y	(x, y)

**Ex 4.**

Graph $x + 2 = 0$.

x	y	(x, y)

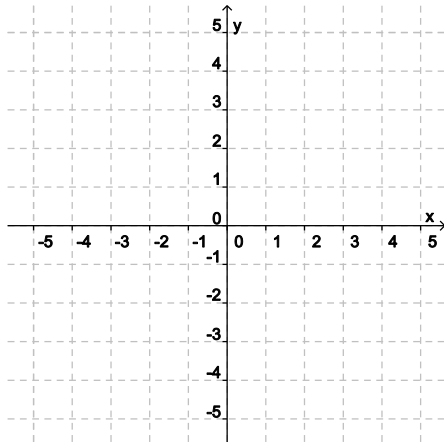


Horizontal lines have the form _____.

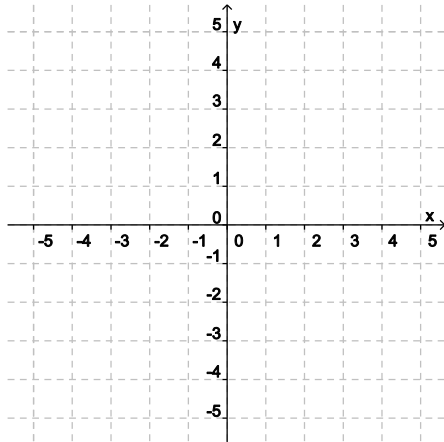
Vertical lines have the form _____.

Practice

1. Graph $-3x + 2y = 6$.



2. Graph $y + 3 = 0$.



Q: What word starts with "e" and has only one letter in it?