

Identify the axes.

Graphs courtesy of "Graph":

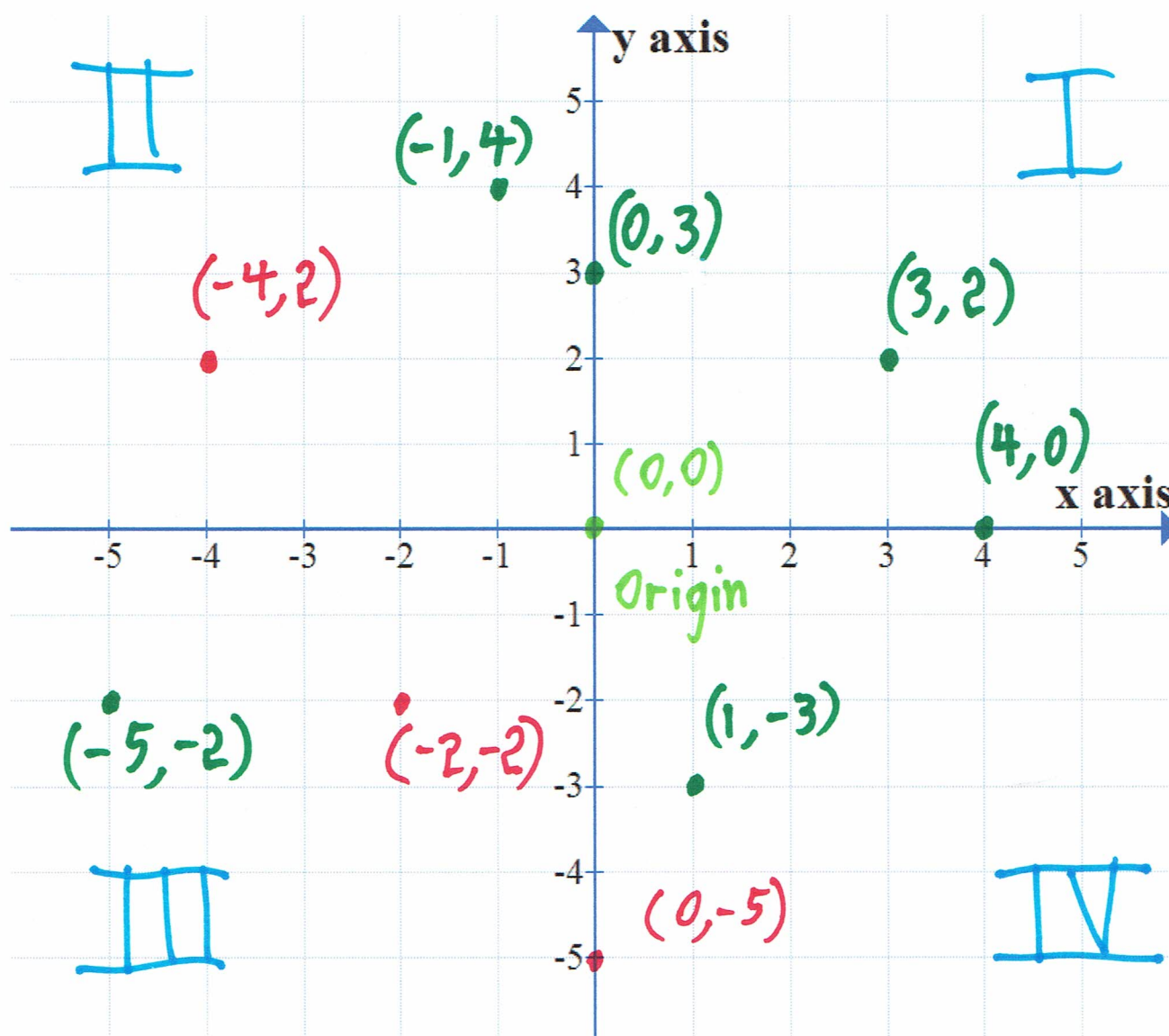
<http://www.padowan.dk>

Identify the quadrants.

Identify the origin, (0,0).

Graph the ordered pairs:

$x$   $y$   
(3, 2), (-1, 4), (-5, -2), (1, -3), (0, 3), (4, 0).



Create an "x, y table" of solutions and graph the equation:

$$3x + 2y = 12$$

$$3x + 2y = 12$$

$$3x + 2 \cdot 0 = 12$$

$$\frac{3x}{3} = \frac{12}{3}$$

$$x = 4$$

$$3x + 2y = 12$$

$$3 \cdot 0 + 2y = 12$$

$$\frac{2y}{2} = \frac{12}{2}$$

$$y = 6$$

$$3x + 2y = 12$$

$$3 \cdot 2 + 2y = 12$$

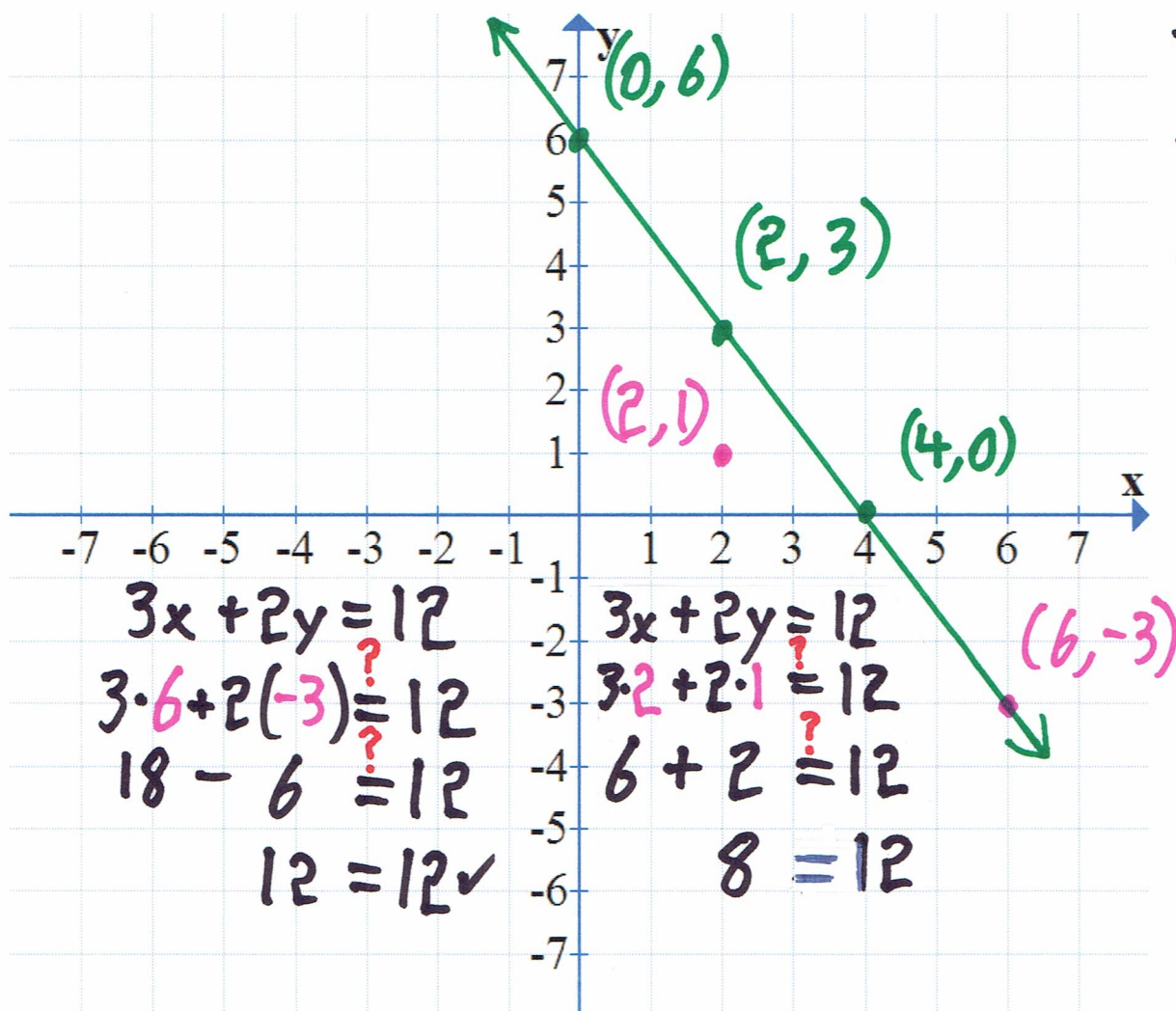
$$6 + 2y = 12$$

$$\begin{array}{r} 6 + 2y = 12 \\ -6 \quad -6 \\ \hline \end{array}$$

$$\frac{2y}{2} = \frac{6}{2}$$

$$y = 3$$

x	y
4	0
0	6
2	3





Create an “x, y table” of solutions and graph the equation:

$$2x - 4y = 20$$

$$2x - 4y = 20$$

$$2x - 4 \cdot 0 = 20$$

$$\frac{2x}{2} = \frac{20}{2}$$

$$x = 10$$

$$2x - 4y = 20$$

$$2 \cdot 0 - 4y = 20$$

$$\frac{-4y}{-4} = \frac{20}{-4}$$

$$y = -5$$

$$2x - 4y = 20$$

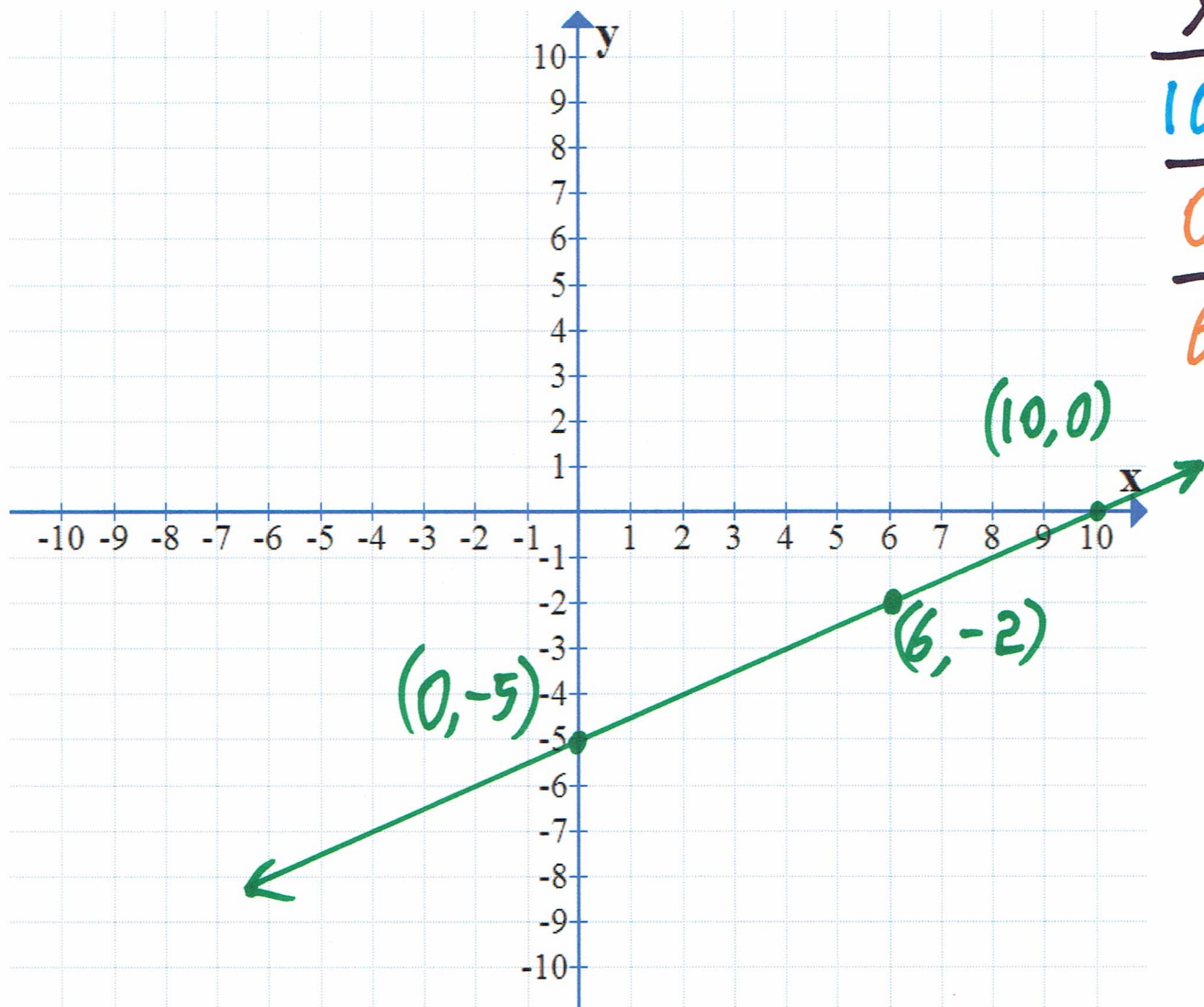
$$2 \cdot 6 - 4y = 20$$

$$\frac{12 - 4y}{-12} = \frac{20}{-12}$$

$$\frac{-4y}{-4} = \frac{8}{-4}$$

$$y = -2$$

X	Y
10	0
0	-5
6	-2



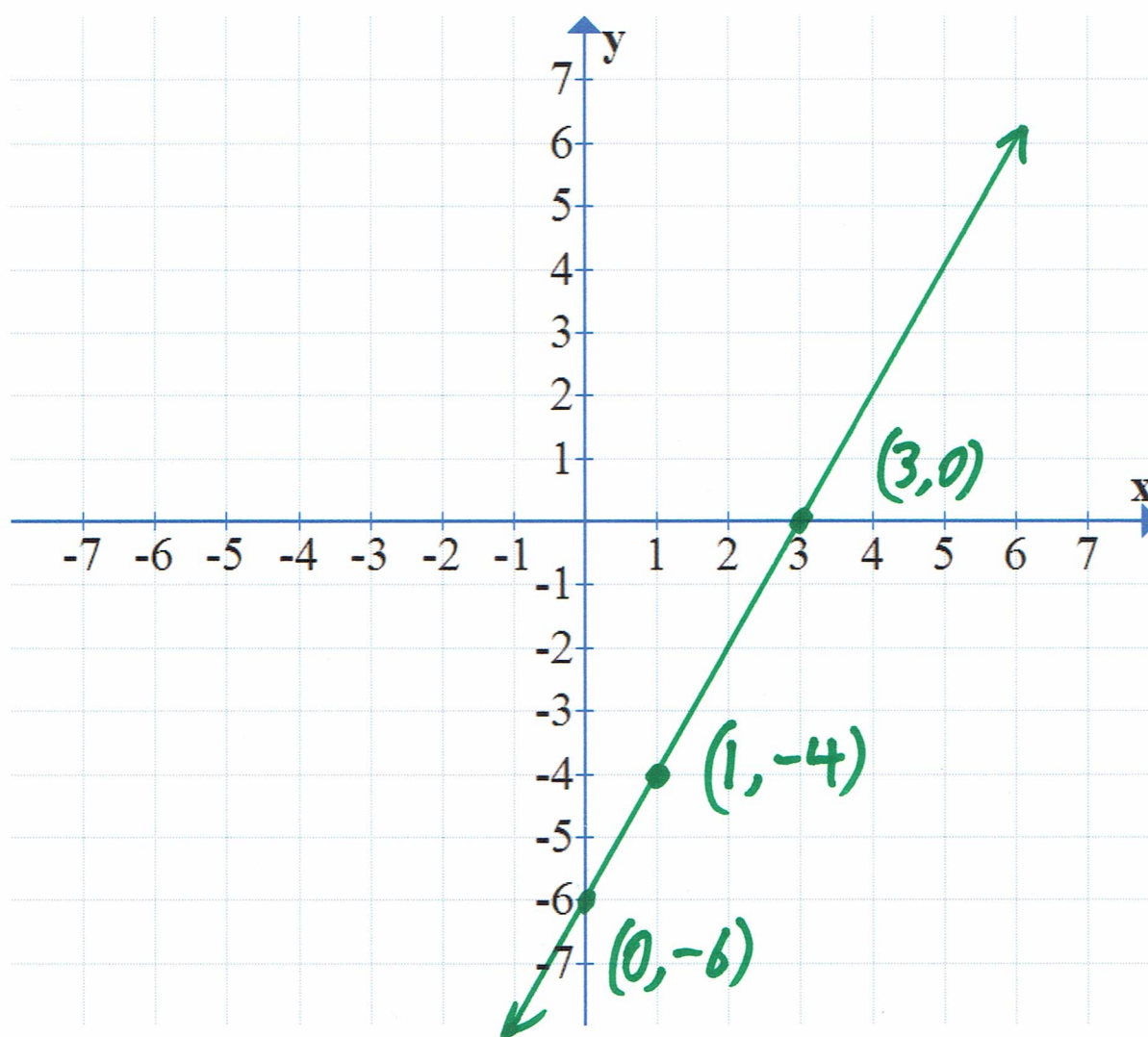
Create an “x, y table” of solutions, including x and y intercepts, and graph the equation:

$$\begin{array}{r} y = 2x - 6 \\ 0 = 2x - 6 \\ +6 \quad \quad +6 \\ \hline 6 = 2x \\ \frac{6}{2} = \frac{2x}{2} \\ 3 = x \end{array}$$

$$\begin{array}{l} y = 2x - 6 \\ y = 2 \cdot 0 - 6 \\ y = -6 \end{array}$$

$$\begin{array}{l} y = 2x - 6 \\ y = 2 \cdot 1 - 6 \\ y = 2 - 6 \\ y = -4 \end{array}$$

x	y
3	0
0	-6
1	-4



Create an “x, y table” of solutions, including x and y intercepts, and graph the equation:

$$5x - y = 0$$

$$5x - 0 = 0$$

$$\frac{5x}{5} = \frac{0}{5}$$

$$x = 0$$

$$5x - y = 0$$

$$5 \cdot 0 - y = 0$$

$$\frac{-y}{-1} = \frac{0}{-1}$$

$$y = 0$$

$$5x - y = 0$$

$$5x - y = 0$$

$$5 \cdot 1 - y = 0$$

$$\frac{5 - y}{-5} = \frac{0}{-5}$$

$$\frac{-y}{-1} = \frac{-5}{-1}$$

$$y = 5$$

$$5x - y = 0$$

$$5(-1) - y = 0$$

$$-5 - y = 0$$

$$\begin{array}{r} +5 \end{array}$$

$$\frac{-y}{-1} = \frac{5}{-1}$$

$$y = -5$$

x	y
0	0
0	0
1	5
-1	-5

