

# Graphing, x-y Chart

## Algorithm

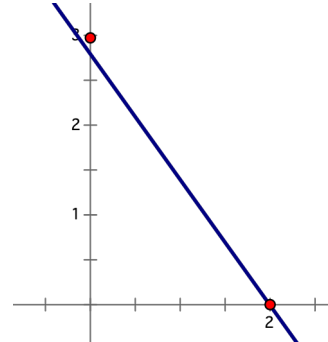
1. Solve the equation for y
2. Pick convenient values of x
3. Find corresponding values of y
4. Plot points and draw line

**When you have a fraction, using a multiple of the denominator as convenient numbers makes the arithmetic easier.**

**Example:** Graph  $3x + 2y = 6$

$$2y = -3x + 6$$
$$y = \frac{-3}{2}x + 3$$

x	y
0	3
2	0
4	-3



**Graph the following**

1.  $y = 2x + 3$

2.  $y = 3x - 5$

3.  $y = 4x + 1$

4.  $y = -2x + 5$

5.  $-3x + y = 4$

6.  $2x + y = -3$

7.  $4x - 2y = 6$

8.  $5x + 2y = 10$

9.  $y = \frac{2}{3}x + 4$

10.  $y = -\frac{1}{2}x + 3$

11.  $x + y = 4$

12.  $x - y = 4$

13.  $2x - 3y = 6$

14.  $2x + 3y = 6$

15.  $y = \frac{1}{3}x - 2$

16.  $y = \frac{3}{4}x + 1$

17.  $x = 5$

18.  $y = -3$

19.  $3x + 5y = 15$

20.  $5x - 2y = 10$