3.) **From an Equation → y = mx + b**

a.) Solve the equation for y.

b.) Slope is the rate of change therefore, it is next to the variable x.

c.) The slope is the coefficient of x.

① $y = \boxed{\frac{1}{2}}x + 4$ $m = \frac{1}{2}$

② $y = \boxed{-3}x - 2$ $m = -3$

③ $y = -1x + 5$ $m = -1$

④ $y = -1x + 3$ $m = -1$

4.) **From Two Points**

a.) Label the x and y coordinates.

b.) Find the change of y and the change of x by subtracting

c.) Write the slope as the change of y over the change of x.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

① (4,3) (7,5) $m = \frac{5-3}{7-1} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$

② (-4,7) (-6,-4) $m = \frac{-4-7}{-6-(-4)} = \frac{-4-7}{-6+4} = \frac{-11}{-2} = \frac{11}{2}$