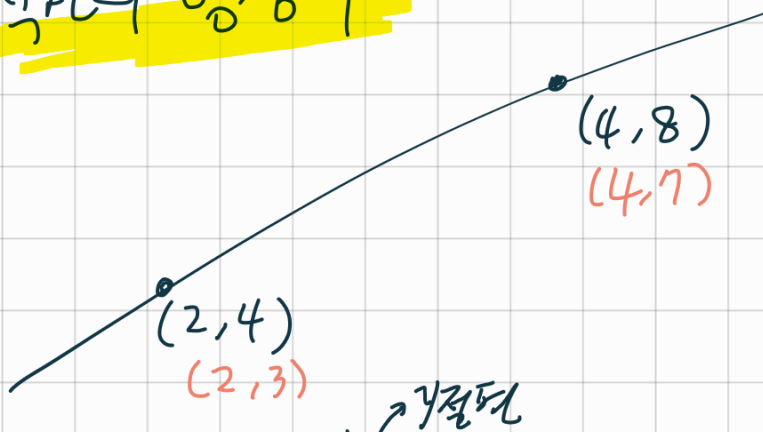


직선의 방정식



$$m = \frac{8-4}{4-2} = \frac{4}{2}$$

$$y = 2x + b$$

$$2 \times 2 + b = 4$$

$$y = x(m + b)$$

$$m = \frac{7-3}{4-2} = \frac{4}{2} = 2$$

(4, 7)

(2, 3)

$$7 = 4 \cdot 2 + b$$

$$7 = 8 + b$$

$$b = 7 - 8 = -1$$

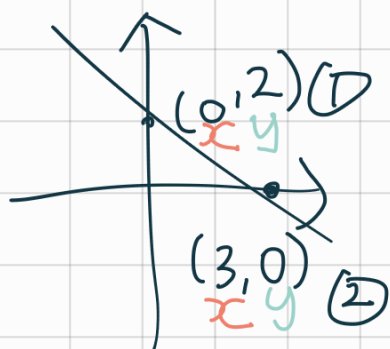
$$7 = 2 \cdot 4 + (-1)$$

$$7 = 8 - 1$$

$$3 = 2 \cdot 2 + (-1)$$

$$= 4 - 1$$

$$3 = 3$$



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

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

$$y = mx + b$$

$$m = \frac{0-2}{3-0} = \frac{-2}{3}$$

$$2 = 0 + b \quad (0, 2)$$

$$b = 2 \quad (3, 0)$$

$$0 = -\frac{2}{3} \cdot 3 + 2$$

$$0 = -2 + 2$$

$$=$$

$y = mx + b$

$$m = \frac{8-4}{4-2} = \frac{4}{2} = 2$$

$$y = 2x + b$$

$$b = y - 2x$$

$$= 8 - 2 \cdot 4$$

$$= 8 - 8$$

$$= 0$$

(2, 4)

(4, 8)

$$4 = 2 \cdot 2 + 0$$

$$= 4$$

$$8 = 2 \cdot 4 + 0$$

$$= 8$$

$$v = f(x_1, x_2, x_3)$$

$$= 2x^2 + 4x_2^3 \log x_1 + 5x_1 x_2 x_3^2 \log x_2$$

$$\frac{\partial v}{\partial x_1} = ? \quad \text{Product Rule}$$

$$\frac{\partial v}{\partial x_2} = ? \quad (p(x)q(x))'$$

$$= p'(x)q(x) + p(x)(x)$$

$$\frac{\partial v}{\partial x_3} = ? \quad \log_2 \sqrt{8} + \log_9 \sqrt{27}$$

$$= ?$$

$$\log_a b = \frac{\log b}{\log a}$$