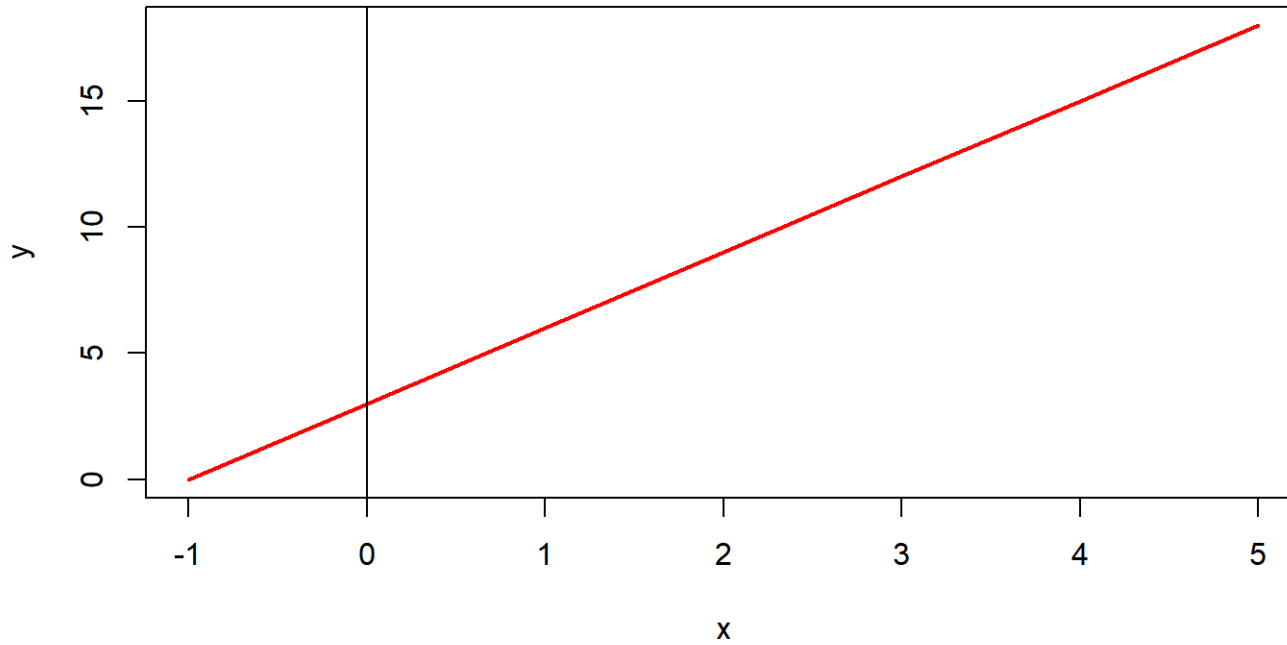


모두의 딥러닝 (Deep learning)

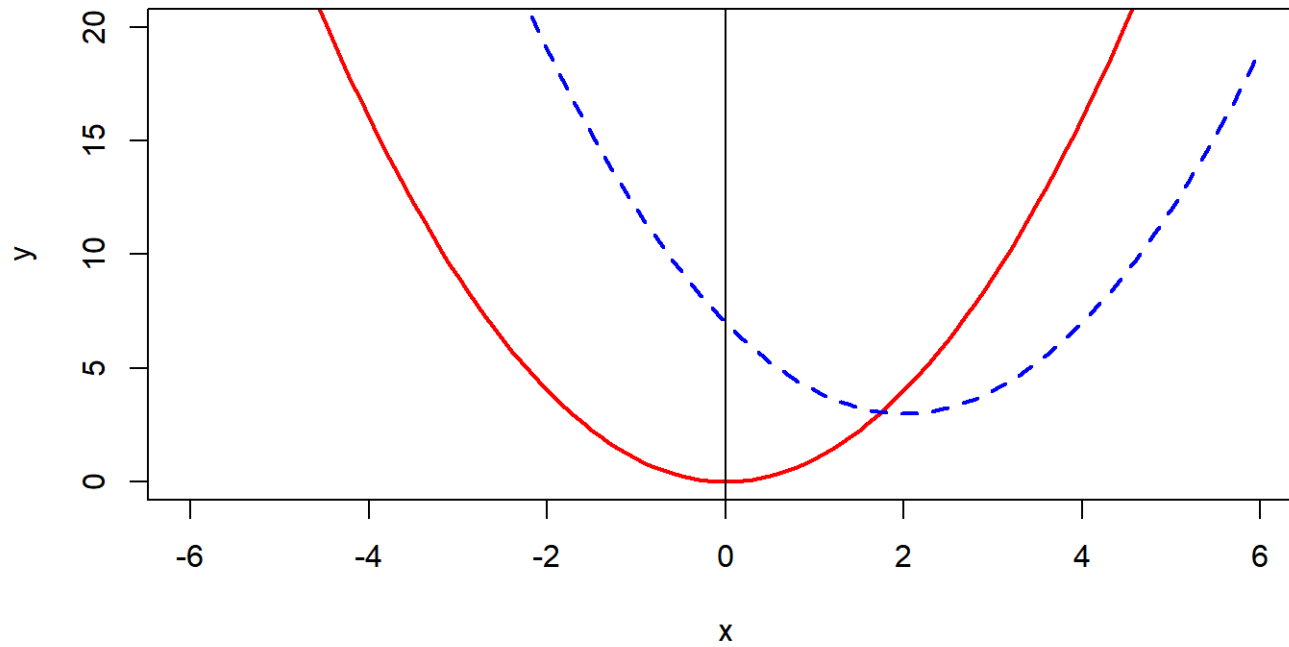
Nambeom Kim (nbunkim@gmail.com)

딥러닝을 위한 기초 수학

일차함수, 기울기와 y절편

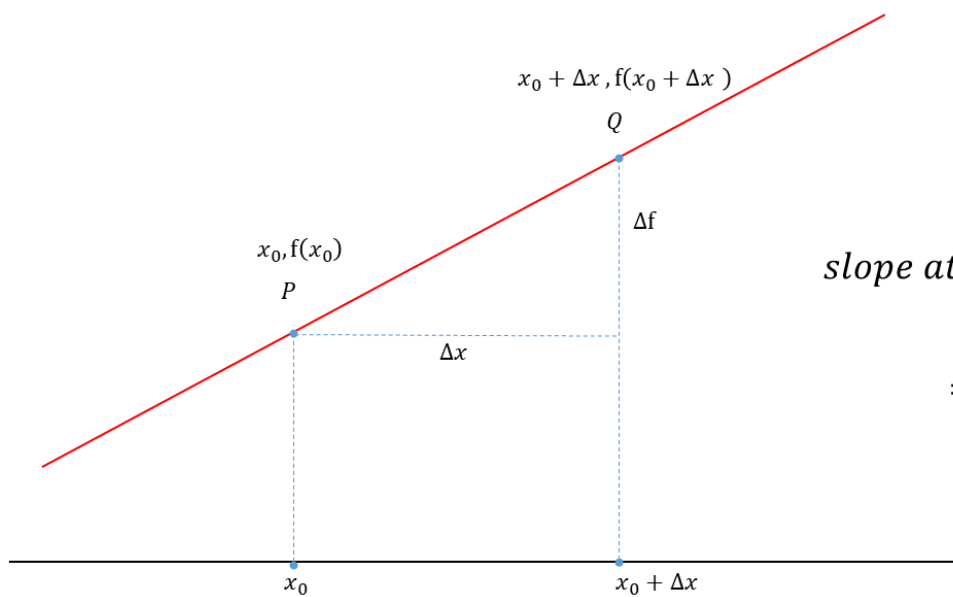


이차함수



순간변화율과 미분함수

Geometric interpretation



$$\text{slope at } P = \lim_{\Delta x \rightarrow 0} \frac{\Delta f}{\Delta x},$$

$$= \lim_{\Delta x \rightarrow 0} \frac{f(x_0 + \Delta x) - f(x_0)}{\Delta x}$$

$$f'(x) = \frac{df}{dx} = \frac{dy}{dx} = \frac{d}{dx} f = \frac{d}{dx} y$$

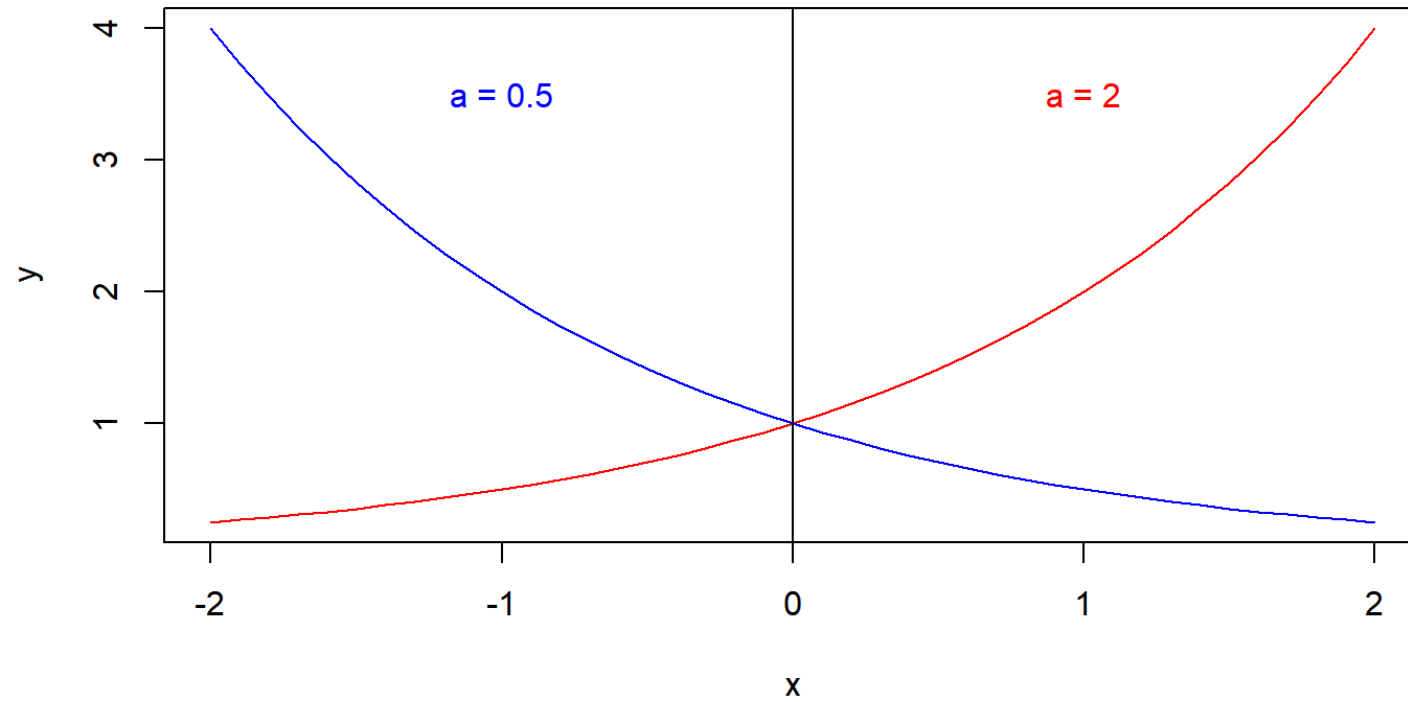
편미분 (Partial derivatives)

$$\frac{\partial f}{\partial x} f(x, y) = x^2 + xy + a,$$

$$\frac{\partial f}{\partial x} = 2x + y$$

지수함수

$$y = a^x (a \neq 0, a > 0)$$



로그함수

$$y = \log_a x$$

