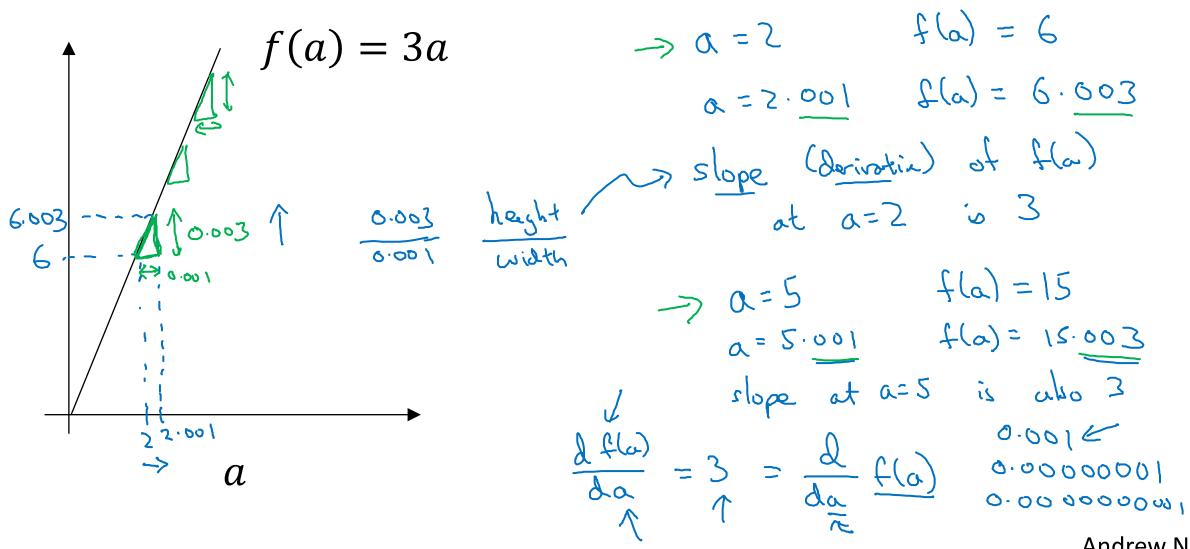


Basics of Neural Network Programming

deeplearning.ai

Derivatives

Intuition about derivatives



Andrew Ng



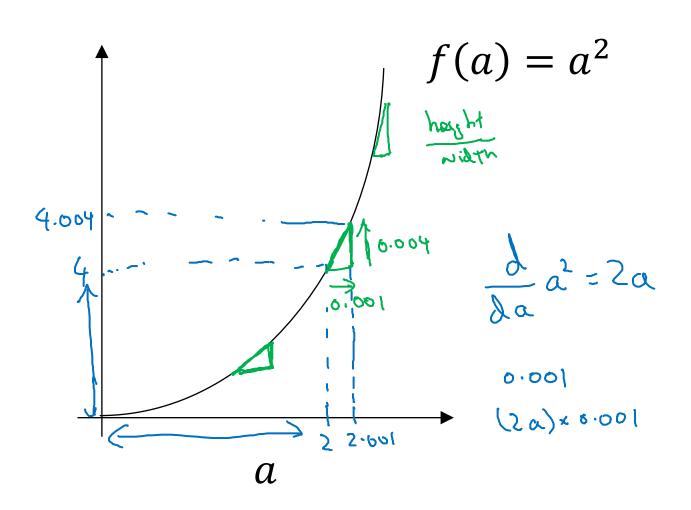
deeplearning.ai

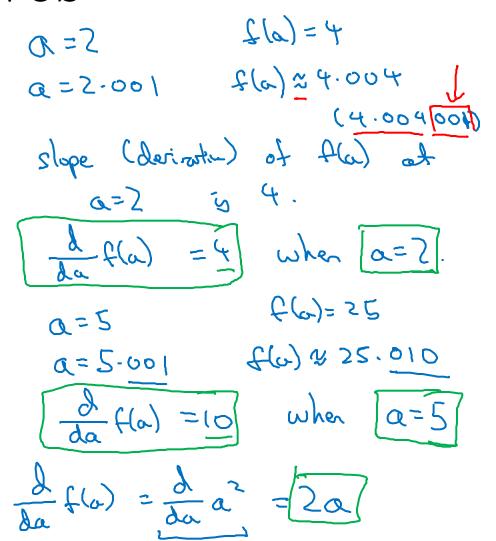
Basics of Neural Network Programming

More derivatives examples

Intuition about derivatives







More derivative examples

$$f(a) = a^2$$

$$f(\omega) = \alpha^3$$

$$\frac{d}{da}(a) = 3a^{2}$$
 $3x2^{3} = 12$

$$a = 2$$
 $f(a) = 4$
 $a = 2-001$ $f(a) = 4-004$

$$a = 2.001$$
 $f(a) = 8$
 $a = 2.001$ $f(a) = 8$

$$Q = 5.001 \quad \text{fm} \approx 0.64312$$

$$Q = 5.001 \quad \text{fm} \approx 0.64362$$