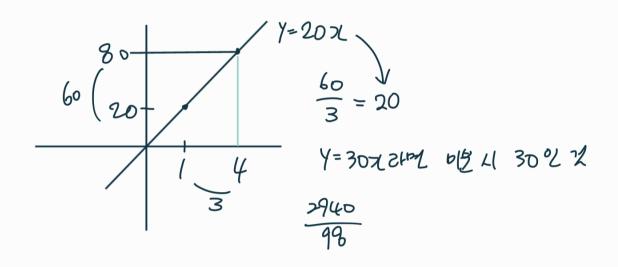
时= 757 Ly ex (Z) OFL (1)日)院对为党大

③ 时沙儿



$$f(x) = \lim_{h \to 0} \frac{f(a+h) - f(a)}{h}$$

$$\frac{f(x,y)}{\frac{\partial f}{\partial x}} = \lim_{h \to \infty} \frac{f(a+h,y) - f(a,y)}{h}$$

$$\frac{\partial f}{\partial y} = \lim_{h \to \infty} \frac{f(x,b+h) - f(x,b)}{h} = f'(x,b)$$

$$\int n^2 dx = \frac{\chi^{n+1}}{n+1} + C$$

$$\int_{1}^{2} \chi^{2} d\chi = \left[\frac{\chi^{3}}{3}\right]_{1}^{2} = \frac{2^{3}}{3} - \frac{1}{3} = \frac{7}{3}$$

$$\int_{2}^{4} 2 x^{3} dx = 2 \int_{2}^{4} x^{3} dx = 2 \left[\frac{1}{4}^{4} \right]_{2}^{4} = 2 x \left[\frac{1}{4}^{4} - \frac{2}{4}^{4} \right] = 2 x \left[\frac{1}{4} (4^{4} - 2^{4}) = \frac{1}{2} 2^{4} (2^{4} - 1) = 8 \times 15$$

$$\int_{1}^{2} t^{2} dt = ? \left[\frac{t^{3}}{3} \right]_{1}^{2} = \frac{2^{3}}{3} - \frac{1}{3} = \frac{1}{3}$$

$$\int_{1}^{2} (2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 6\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x+9) dx + 9\int_{1}^{2} 2(2x^{2}+6x+9) dx = ? 2\int_{1}^{2} 2(2x^{2}+6x$$

$$\int_{-2}^{2} (25^{2} + 6\pi) ds = ? \quad 2 \int_{2}^{2} \frac{5^{3}}{3} + 6 \int_{-2}^{2} \frac{7^{2}}{2} = 2 \left[\frac{5^{3}}{3} \right]_{-2}^{2} + 6 \left[\frac{7}{2} \right]_{-2}^{2}$$

$$= 2 \left(\frac{9}{3} - \frac{9}{3} \right) + 6 \left(\frac{9}{2} + \frac{9}{2} \right)$$

$$= 2 \frac{1}{3} ?$$

$$\int_{-1}^{3} (t^{2}+2t+9) dt = ?$$

$$= \left[\frac{t^{3}}{3}\right]_{-1}^{3} + 2\left[\frac{t^{2}}{2}\right]_{-1}^{3} + 9\left[\chi\right]_{-1}^{3}$$

$$= \frac{3^{3}}{3} - \frac{(-1)^{3}}{3} + 2\left(\frac{2\times 3}{2} - \frac{2\times (-1)}{2}\right) + 36$$

$$= 9 + \frac{1}{3} + 8 + 36 = 53 + \frac{1}{3}$$

$$0 = \frac{3}{2}\frac{1}{1}$$
 $0 = \frac{5}{t}$
 $0 = \frac{5$

$$2 \left(\frac{2}{3} \right)^{2} d_{x} + 6 \int_{2}^{3} d_{x} = ? \quad 2 \left[\frac{5^{3}}{3} \right]_{-2}^{2} + 6 \left[\frac{5^{2}}{2} \right]_{-2}^{2}$$

$$2 \times 2 \int_{0}^{2} 5^{2} d_{x} \qquad = 2 \times \left(\frac{8}{3} - \left(\frac{9}{3} \right) \right) + 6 \left[\frac{9}{2} - \frac{9}{2} \right]$$

成立

$$\frac{d^2f}{dx^2}$$
 (fえ 与れの地)
 $f(x) = 3x^2$ 가はり
 $f' = 6x$ 年至り
 $f' = 6$ 735

del = gradient Descent

$$\nabla f = \begin{cases} \frac{\partial f}{\partial x} \\ \frac{\partial f}{\partial y} \\ \frac{\partial f}{\partial y} \\ \frac{\partial f}{\partial z} \end{cases}$$

$$\nabla = \begin{pmatrix} \frac{\partial}{\partial x} \\ \frac{\partial}{\partial y} \\ \frac{\partial}{\partial y} \\ \frac{\partial}{\partial z} \end{pmatrix}$$

$$W_{1} = W_{1} - \alpha \frac{3J}{2W}$$

$$W_{2} = W_{2} - \alpha \frac{3J}{3W_{2}}$$

$$\vdots$$

$$W_{100} = W_{100} - \alpha \frac{3J}{2W_{100}}$$

$$W_{100} = W_{100} - \alpha \frac{3J}{2W_{100}}$$

$$W_{100} = W_{100} - \alpha \frac{3J}{2W_{100}}$$