24数值计算方法》板书 补充讲: O梯度下降算法 (优化)

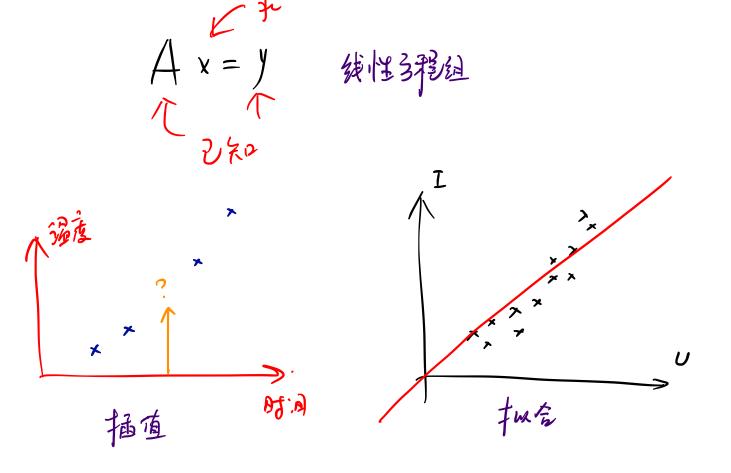
(优化)

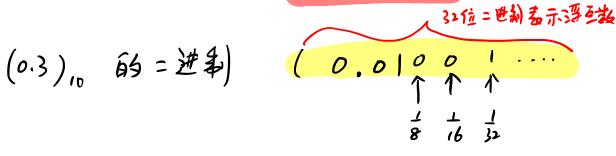
$$\sum_{i=1}^{n} i = \frac{1}{2} n(n+i) \frac{2\pi}{n}$$

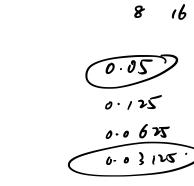
$$\frac{dy}{dx} = f(x \cdot y) \frac{2\pi}{n} \frac{3\pi}{n}$$

$$\frac{dy}{dx} = x = y = y = \frac{1}{2} x^{2} + C$$

$$x = 0 \text{ Bd. } y = 0 \Rightarrow c = 0$$







$$H = 6.0 \pm 0.2 \qquad D = 5.0 \pm 0.1$$

$$V = \frac{\pi}{4} D^{2} H$$

$$V^{*} = \frac{\pi}{4} \times 5^{2} \times 6$$

$$V = \frac{\pi}{4} D^{2} H$$

$$V' = \frac{\pi}{4} \times 5^{2} \times 6$$

$$V - V' = \frac{\partial V}{\partial H} \cdot (H - H') + (\frac{\partial V}{\partial D}) (D - D')$$

$$= \frac{\pi}{4} D^{2} (\pm 0.2) + \frac{\pi}{2} DH (\pm 0.1)$$

$$e_{V} = \frac{V - V''}{V} = \cdots$$

$V = \frac{\pi}{4} \times 5^2 \times 6$	
$V-V^{*}=\frac{\partial V}{\partial H}\cdot(H-H^{*})+(\frac{\partial V}{\partial D})(D-D^{*})$	
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$$X = 50324.$$

$$y = 0.37621$$

$$l = 50324.$$

 $x = 5.0324 \times 10^4$

$$y = 3.7621 \times 10^{-1}$$

 $2 = x + y = \frac{5.032437621 \times 10^{-1}}{1000}$

-> 5.0324 × 104