

$$\int\int\int_V f(x,y,z)dV=F$$

$$\frac{dx}{dy}=x'$$

$$|x|=\begin{cases} -x, & \text{if } x<0 \\ x & \text{if } x\geq 0 \end{cases}$$

$$F(x)=A_0+\sum_{n=1}^N\left[A_n cos\left(\frac{2\pi nx}{P}\right)+B_n sin\left(\frac{2\pi nx}{P}\right)\right]$$

$$\sum_n \frac{1}{n^s} = \prod_p \frac{1}{1-\frac{1}{p^s}}$$

$$m\ddot{x}+c\dot{x}+kx=F_0sin(2\pi ft)$$

$$\begin{aligned} f(x) &= x^2 + 3x + 5x^2 + 8 + 6x \\ &= 6x^2 + 9x + 8 \\ &= x(6x + 9) + 8 \end{aligned}$$