

$$M \bar{x} = \sum_i m_i x_i \quad \text{or} \quad \iiint \rho x \, dV \quad \text{or} \quad \iint \rho x \, dA$$

$$I_z = \iiint \rho (x^2 + y^2) \, dV, \quad \text{etc.}$$

$$\int_a^b x^n f(x) \, dx, \quad n = 0, 1, 2, 3, \dots,$$