Information Sheet

$$\sum_{i=1}^{n} 1 = n$$

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

$$\sum_{i=1}^{n} i^2 = \frac{n(n+1)(2n+1)}{6}$$

$$\sum_{i=1}^{n} i^3 = \frac{n^2(n+1)^2}{4}$$

$$\int_a^b f(x)\,dx \approx \frac{\Delta x}{2}\left[f(x_0) + 2f(x_1) + 2f(x_2) + \ldots + 2f(x_{n-1}) + f(x_n)\right]$$

$$\int_a^b f(x)\,dx \approx \frac{\Delta x}{3}\left[f(x_0) + 4f(x_1) + 2f(x_2) + 4f(x_3) + 2f(x_4) \ldots + 4f(x_{n-1}) + f(x_n)\right]$$

$$CS = \int_0^{\overline{x}} D(x)\,dx - \overline{px}$$

$$PS = \overline{px} - \int_0^{\overline{x}} S(x)\,dx$$

$$A = e^{rT} \int_0^T R(t)e^{-rt}\,dt$$

$$PV = \int_0^T R(t)e^{-rt}\,dt$$

$$A = \frac{mP}{r}\left(e^{rT} - 1\right)$$

$$PV = \frac{mP}{r}\left(1 - e^{rT}\right)$$

$$L = 2\int_0^1 \left[x - f(x)\right]dx$$

$$T_n(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \ldots + \frac{f^{(n)}(a)}{n!}(x-a)^n$$