Formula Sheet

$$I = P\,r\,t, \qquad A = P(1 + r\,t), \qquad P = \frac{A}{1 + rt},$$

$$A = P(1 + i)^n, \qquad P = \frac{A}{(1 + i)^n},$$

$$i = \frac{r}{m}, \qquad n = mt, \qquad APY\,(r_e) = \left(1 + \frac{r}{m}\right)^m - 1$$

$$FV = PMT\left(\frac{(1 + i)^n - 1}{i}\right), \qquad PMT = FV\left(\frac{i}{(1 + i)^n - 1}\right)$$

$$PV = PMT\left(\frac{1 - (1 + i)^{-n}}{i}\right), \qquad PMT = PV\left(\frac{i}{1 - (1 + i)^{-n}}\right)$$

The Quadratic Formula $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Vertex=(h,k)= $\left(\dfrac{-\mathrm{b}}{2\mathrm{a}}, \mathrm{f}\left(\dfrac{-\mathrm{b}}{2\mathrm{a}}\right)\right)$

m= $\dfrac{\mathrm{y}_2 - \mathrm{y}_1}{\mathrm{x}_2 - \mathrm{x}_1}$**,** $\quad \mathrm{y} - \mathrm{y}_1 = \mathrm{m}(\mathrm{x} - \mathrm{x}_1)$