$$Interest = p \; X \; r \; X \; t$$

$$PV = \frac{FV}{(1+r)^t}$$

$$APR = [\sqrt[nr\ of\ periods]{(1+EAR)} - 1] * nr\ of\ periods$$

$$PV\ (perpetuity) = \frac{CF}{r}$$

$$FV(annuity) = CF * \left[\frac{1}{r} - \frac{1}{r*(1+r)^t}\right] * (1+r)^t$$

$FV_{\text{Annuity Due}} = FV_{\text{Ordinary Annuity}} \times (1+r)$

$$NPV = C_0 + C * \left[\frac{1}{r} - \frac{1}{r*(1+r)^t}\right]$$

$$P_0 = \frac{\text{Div}_1}{(1+r)^1} + \frac{\text{Div}_2}{(1+r)^2} + \ldots + \frac{\text{Div}_t + P_t}{(1+r)^t}$$

$$P_0 = \frac{DIV_1}{r-g}$$

$$g = ROE * plowback\ ratio$$

$$price = coupon * \left[\frac{1}{r} - \frac{1}{r*(1+r)^t}\right] + \frac{face\ value}{(1+r)^t}$$

$$coupon\ payment = coupon\ rate * face\ vale$$

$$RoR = \frac{coupon + (P_1 - P_0)}{P_0}$$

$$FV = PV * (1+r)^t$$

$$EAR = (1 + \frac{APR}{number\ of\ periods})^{number\ of\ periods} - 1$$

$$1 + real\ rate = \frac{1 + nominal\ rate}{1 + inflation}$$

$$PV(annuity) = CF * \left[\frac{1}{r} - \frac{1}{r*(1+r)^t}\right]$$

$PV_{\text{Annuity Due}} = PV_{\text{Ordinary Annuity}} \times (1+r)$

$$NPV = C_0 + \frac{C_1}{(1+r)^1} + \frac{C_2}{(1+r)^2} + \ldots + \frac{C_t}{(1+r)^t}$$

$$V_0 = \frac{\text{Div}_1 + P_1}{1+r}$$

$$P_0 = \frac{DIV_1}{r}$$

$$DIV_1 = DIV_0 * (1+g)$$

$$\text{Expected return} = r = \frac{\text{Div}_1 + P_1 - P_0}{P_0}$$

$$coupon\ rate = \frac{coupon\ payment}{face\ vale}$$

$$current\ yield = \frac{coupon\ payment}{price}$$

$$r_e = r_f + \beta(r_m - r_f)$$

$$\text{WACC} = \left[\frac{D}{V} \times (1 - T_c) r_{\text{debt}}\right] + \left[\frac{P}{V} \times r_{\text{preferred}}\right] + \left[\frac{E}{V} \times r_{\text{equity}}\right]$$