Present Value

$FV = PV(1 + r)^t$
$t = \ln(FV / PV) / \ln(1 + r)$

Annuities:

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

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

Perpetuity:

$PV = C / r$

Growing perpetuity:

$$PV = \frac{C_1}{r-g}$$

Growing annuity:

$$PV = \frac{C_1}{r-g}\left[1-\left(\frac{1+g}{1+r}\right)^T\right]$$

EAR:

$$\text{EAR} = \left[1+\frac{\text{APR}}{\text{m}}\right]^{\text{m}} - 1$$

Bond Pricing Formula:

$$\text{Bond Value} = \text{C}\left[\frac{1-\frac{1}{(1+\text{r})^{\text{t}}}}{\text{r}}\right] + \frac{\text{F}}{(1+\text{r})^{\text{t}}}$$

Fischer Formula:

$(1 + R) = (1 + r)(1 + h)$,

Stock Valuation:

Zero Growth:
$P_0 = D / R$

Dividend Growth Model:

$$\text{P}_0 = \frac{\text{D}_0(1+\text{g})}{\text{R - g}} = \frac{\text{D}_1}{\text{R - g}}$$

Required Rate of Return:

$$\text{R} = \frac{\text{D}_0(1+\text{g})}{\text{P}_0} + \text{g} = \frac{\text{D}_1}{\text{P}_0} + \text{g}$$