RWM (Professional Level) Formual Sheet

(The assumption and formula sheet are only available in English.)

Assumption

Assumption	1 year is equal to 365 days.
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Formula Sheet

Formula Sneet	
Bond Value	$Bond\ Value = \sum_{n=1}^{T} \left(\frac{Coupon}{(1+r)^n} + \frac{Par\ Value}{(1+r)^T} \right)$ $V_j = \frac{D_1}{k-g}$
Constant Growth Model	$V_j = \frac{D_1}{k - g}$
Dividend Discount Model	$V_j = \frac{D_1}{1+k} + \frac{D_2}{(1+k)^2} + \frac{D_3}{(1+k)^3} + \dots + \frac{D_\infty}{(1+k)^\infty} = \sum_{t=1}^n \frac{D_t}{(1+k)^t}$
Forward Rate	$Foward = Spot \times \frac{(1 + i_{foreign})}{(1 + i_{domestic})}$
Net Asset Value	$NAV = \frac{\begin{pmatrix} Market\ Value\ of \\ All\ Securities \\ Held\ by\ the\ Fund \end{pmatrix} + \begin{pmatrix} Cash\ and \\ Equivalent \\ Holdings \end{pmatrix} - (Fund\ Liabilities)}{Total\ Fund\ Shares\ Outstanding}$
Price Earnings Ratio	$P/E \ ratio = \frac{Stock \ Price}{Earnings \ Per \ Share}$
Solvency Ratio	$Solvency\ ratio = \frac{Net\ Worth}{Total\ Assets}$
Liquidity Ratio	$Liquidity\ ratio = rac{Liquid\ Assets}{Monthly\ Expenses}$
Savings Ratio	$Savings\ ratio = \frac{Disposable\ Income}{Income\ After\ Tax}$
Debt Equity Ratio	$Debt \ Equity \ ratio = \frac{Total \ Liabilities}{Net \ Worth}$
Debt Income Ratio	$Debt\ Income\ ratio = \frac{Current\ Liabilities}{Income\ After\ Tax}$
Investment Ratio	$Investment\ ratio = \frac{Investment\ Assets}{Net\ Worth}$
CAPM	$E(R_i) - R_f = \beta_i [E(R_M) - R_f]$
Coefficient of variation	Coefficient of variation $=\frac{\sigma}{\mu}$
Correlation coefficient	Correlation coefficient = $\frac{n\sum xy - \sum x\sum y}{\sqrt{n\sum x^2 - (\sum x)^2} \sqrt{n\sum y^2 - (\sum y)^2}}$
Sharpe Ratio	Sharpe Ratio = $\frac{(Mean \ portfolio \ return - risk \ free \ rate)}{Standard \ deviation \ of \ portfolio \ return}$
Forward rate determination (Direct Quote)	Forward rate = Spot rate $\times \frac{(1 + Int_{domestic})}{(1 + Int_{foreign})}$

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