

CHAPTER 3 : ASSET CLASSES Calculate Formard sate Formand rate: Spot rate x 1 1 + RF price <u>Example</u>: Spot USD: AUD = 1.20 $R_F usp = 41$. REAUD = FY. lyear formand USD: AUD = 1.20 × (1+7.)(1+47.) $= 1 \cdot 20 \times 1 \cdot 07$ - 1.2346 * I question asks 6-month forward then adjust interest rates.

CHAPTER 3: ASSET CLASSES Calculate flat yield running yield flat yield = <u>annual coupon</u> bond price Example A bond has a coupon rate of 8%. and is currently trading at \$92. It has 4 years to maturity. What is the llat yield? flat yield = <u>\$8</u> = 8.695% \$92 * While calculating flat yield... years to maturity doesn't matter.

CHAPTER 3: ASSET CLASSES Calculate gross redemption yield (GRY) GRY: <u>annual coupon + (years to maturity</u>) bond price * for premium bond subkact instead of adding. Example A bond has a coupon rate of \$'. and is currently trading at \$94. It has 4 years to maturity. What is the gross redemption yield? $\frac{8 + \left(\frac{6}{4}\right)}{6'}$ GRY : $\frac{8 + 1.5}{94} = \frac{10.10}{5}$;

CHAPTER 5: ECONOMICS & INVESTMENT ANALYSIS Calculation of central tendencies Example: Yearly returns: 1%, -6%, 4%, 4%, 9%, 7%. arithmetic mean: 1-6+4+4+9+7: 3.167% Mode : 4 % Median: -6% 1% 4% 4% 7%, 9%. Median = 4^{\prime} .

Geometric mean -> slightly difficult Calculate geometric mean of 8%, 3%, -5%. Step 1 : write 1/1 in decimale : 0.08, 0.03, -0.05 Step 2: add 1 to the decimals: 1.08, 1.03, 0.95 Step 3 : Multiply all of them : (1.08 × 1.03 × 0.95) Step 4 : Take the nth root : $(1.08 \times 1.03 \times 0.95)^{y_3} = 1.0185$ Step 5 : subkact 1 and convert to % = 1.85% · geometric Practice: Calculate Geormean el 10^{-/}, 12^{-/}, -20^{-/}, 30^{-/}.

CHAPTER 5

PRESENT AND FUTURE VALUE

 $Fv = Pv \times (i+i)^n$ PV = FV $(1+1)^n$

Present value of peopetuity = <u>PMT</u> i

CHAPTER 6: INVESTMENT MGMT LIST OF FORMULAS → (APM: Required = RF + B (Rm - RF) Return \rightarrow Sharpe Ratio = $\frac{Rp - RF}{\sigma}$ \rightarrow Treynor ratio = $\frac{Rp - RF}{B}$ Benchmark Returns → Information &atio = <u>Rp - RB</u> Kacking euor → Money weighted Returns: gels affected by amount invested → Time weighted returns: unaffected by amount invested.