Unit 8: Financial Applications

Day 5: Solving Financial Problems

Today we will...

1. Solve financial problems involving present and future value, interest rate and time.

3MI_U8_D5_2017-2018 Solving Financial Probs COMPLETE.notebook

MCF3MI: Unit 8: Financial Applications Day 5: Solving Financial Problems Example 1: Paula's employer has loaned her \$6500 to pay for a university course tuition and textbooks. The interest rate of the loan is 2.75% /a compounded monthly, and the loan is to be paid back at the end of 2 years. such will Paula have to pay back? $= P(1+i)^{\circ}$ $= 6500(1.00229166)^{\circ}$ $= 2 \times 12 = 34$ $= 2 \times 12 = 34$ How much will Paula have to pay back? A= P(1+6/ -6867.08 Example 2: How much was invested at 6.5% compounded quarterly for 4 years if the final amount was \$8.500? P= THEN (1.01625)16 = 86567.65 April Ratewas 44 %. Example 4: Approximately how long would it take for a \$12 000 investment to double if it earn compounded semi-annually? A = P(1+=)" H-11111 (140.0375) 2=(1.0375)" ->7PIAL9 ems: Homework: pg. p. 487 - 488 #2, 3, 4b, 5abdef, 6, 7, 8, 9 1.0375 = 173 1.6375 = 1.997 1.6375 = 1.997 1.6375 = 2.058 18.8 - 2 > years 11.8 - 2 > years and 5 months to dauble