Part III: Investing and Budgeting

Find an equation of the line in Stobe-intercept form that represents a mical brogression of the	ME, PRU
stock price. $(0,3)(12,9)$ $y=mx+b$ $y=5$	- <u>Y</u>
$M = \frac{1}{12 - 0} = \frac{1}{12} = \frac{1}{2}$ $\frac{3}{12} = \frac{1}{12}$ $\frac{3}{12} = \frac{1}{12}$ $\frac{3}{12} = \frac{1}{12}$ $\frac{3}{12} = \frac{1}{12}$	=mx+b

28. You bought a new car 6 years ago. This car loses all marketable value after 10 years. If the purchase price was \$17,000, how much is it worth today? (Assume straight-line depreciation)

17,000 = 17W 651 PGL YR. 6X1700 = 10,700 LOST VALUE 17,000 - 10,200 = 1\$6,800 VALUE TODAY

29. What would be the monthly payment on a car that costs \$18,500 plus 7.6% sales tax financed over 5 years at 4% interest? $18,500 \times 0.076 = 1406 + 18500 = 19,906$ 19,906 (.04/12) $1-(1+.04/12)^{-60}$ 366.60 / Mow 74

30. How much would you be financing (borrowing) on a car purchase of \$16,600 plus 6.9% tax, followed by a \$3,000 cash down payment?

owed by a \$3,000 cash down payment?

16,600

16,600
$$\times$$
 .069 = +1,145.40 TAX

-3,000.00

16,600

41,145.40

16,600

41,145.40

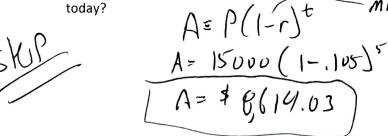
17,145.40

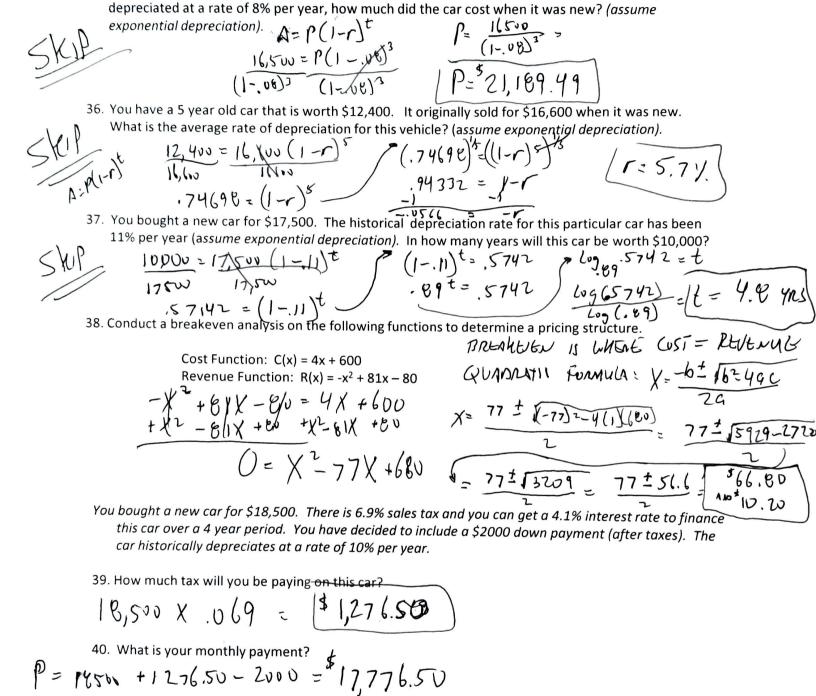
190 to breakfast with friends and pay the bill. The check comes to \$49.50 plus 6.6% sale

31. You go to breakfast with friends and pay the bill. The check comes to \$49.50 You give an 14% tip. How much does the meal cost you?

33. Factor and Solve: $y = 4x^2 + 19x - 5$ $0 = 4x^2 + 19x - 5$ 0 = 4x

34. You bought a car 5 years ago. This car loses historically has depreciated at a rate of 10.5% per year (assuming exponential depreciation). If the purchase price was \$15,000, how much is it worth - MINUS! today?





 $mP = \frac{17776.50(.041/12)}{(1-(1+.041/12)^{-48})} = 1 + 402.17$

35. You are purchasing a 3 year-old used car. If the current price is \$16,500 and has historically