SECTION 3.2 - SIMPLE INTEREST

Formulas: I = Prt and F = P(1 + rt).

1. Jimmy is putting \$500 into his savings account which earns simple interest at a rate of 5.5% per year. At the end of 10 years (assuming that the \$500 is still there), how much money will he have in his account?

2. Ronaldo borrows \$1500 from the bank and, 42 months later pays them back \$1625. If we assume simple interest, what is the interest rate?

$$1625 = 1500(1 + 3.5)$$
 $1.0833 = 1 + 3.5$
 $1.0833 = 3.5$

3. 20 years ago, Mr. Garrison invested a certain sum of money. At the time of the investment, the interest rate was 4.5%. At the present, his investment is worth \$202,500. What was the amount of his original investment?

$$202,500 = P(1+(.045)(20))$$

 $202,500 = P(1.4)$
 $P = 106,578.95$