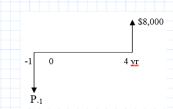
Test 1 - Solution



(a)

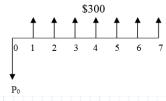


All problems were computed using formulas. The use of factors from the book may result in slightly different numbers.

$$P_{minus\ 1} = 6900.9$$

factors. It looks a little different than what we have used in class for factor notation, but should be easy enough to recognize. If you have questions, check with the professor.

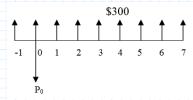




$$P_0 = 300 \cdot P_A(3\%, 7)$$

$$P_0 = 1869.1$$





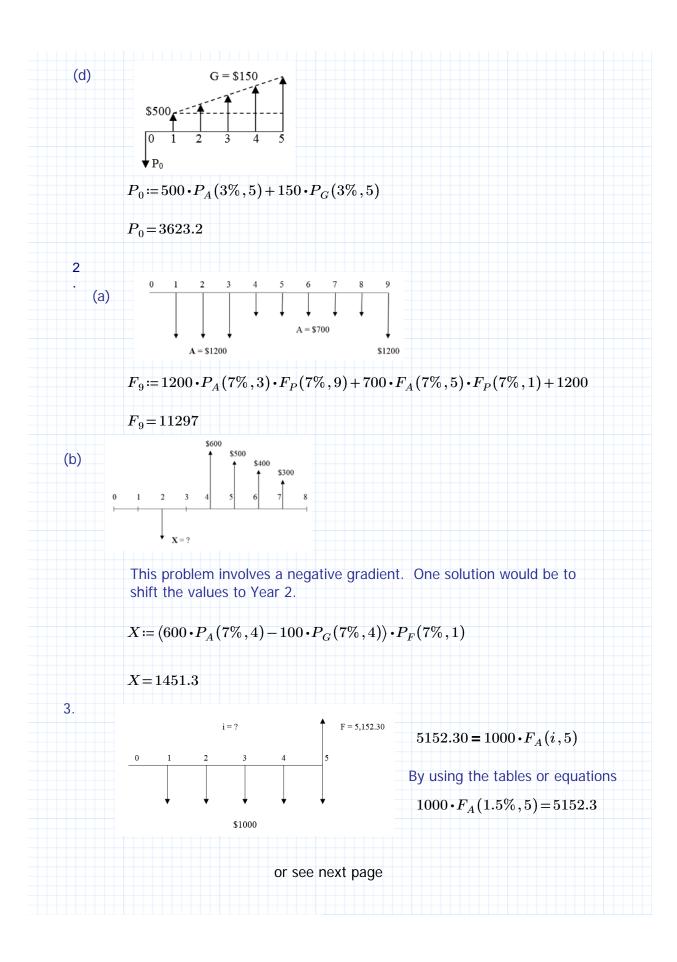
$$P_0 = 300 \cdot P_A(3\%, 9) \cdot F_P(3\%, 2)$$

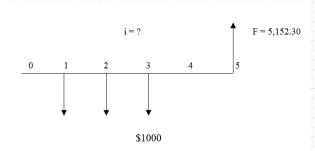
$$P_0 = 2478.1$$

or

$$P_0 = 300 \cdot F_A(3\%, 9) \cdot P_F(3\%, 7)$$

$$P_0 = 2478.1$$





$$5152.3 = 1000 \cdot F_A(i\%, 3) \cdot F_P(i\%, 2)$$

$$F_A(i\%,3) \cdot F_P(i\%,2) = 5.1523$$

In the equation below, set n=3 in the first expression and n=2 in the second expression

Try values for i until solution is reached.

$$i = 0.1934$$

$$\left(\left(\frac{\left(1+i\right)^{3}-1}{i} \right) \cdot \left(1+i\right)^{2} \right) = 5.1522$$