

Student Name: _____

ID: _____

1. Find P and F of the indicated cash flow in Fig. 1 if annual interest rate is 12 %. The periods in the cash flow shown are in months. Draw the modified cash flow.

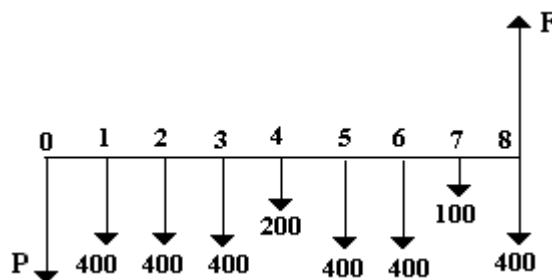


Fig. 1

(Ans. 1,724 LE, 4,269 LE)

2. Find the present value P of the payments shown in Fig. 2 assuming that the interest rate is 10 %.

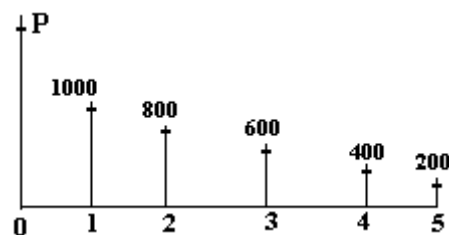


Fig. 2

(Ans. 2,418.4)

3. Find the value of “ A ” that makes the cash flow in Fig. 3 equivalent to that shown in Fig. 2. Assume $i = 10\%$. (Ans. $A = 807.7$)



Fig. 3

4. Find the value of “A” that makes the cash flows in Fig. 4 equivalent. Assume the interest rate to be 12 %.

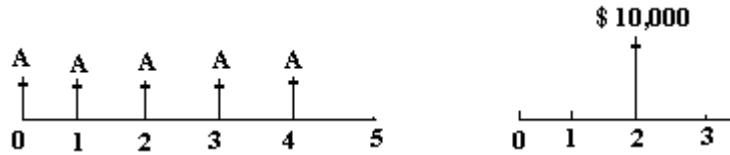


Fig. 4

(Ans. $A = 1974.5$)

5. For the cash flow shown in Fig. 5, Find P and F if $i = 10\%$.

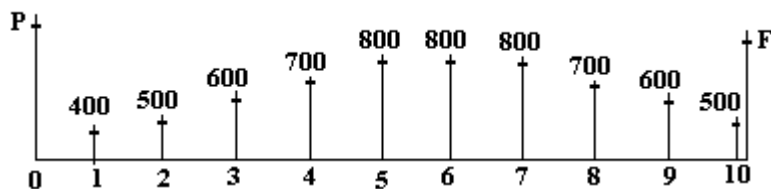


Fig. 5

(Ans. 4,752 LE)

6. For the cash flow shown in Fig. 6, Find P and F if $i = 10\%$.

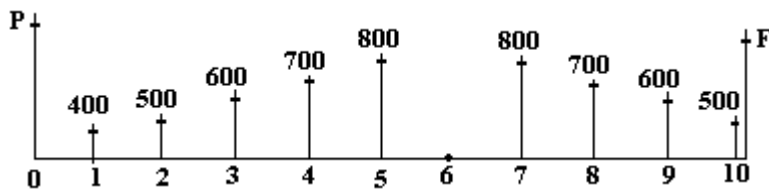


Fig. 6

(Ans. $P = 3,387$ LE, $F = 8,785$ LE)

7. For the cash flow shown in Fig. 7, Find P if $i = 12\%$.

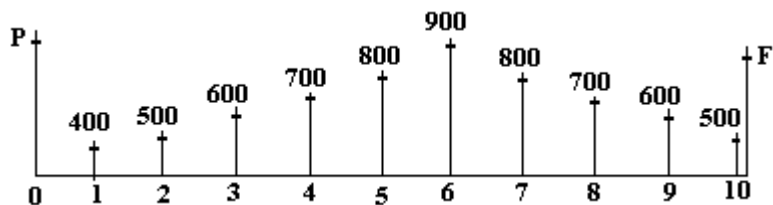


Fig. 7

(Ans. 3,560)

8. For the cash flow indicated in Fig. 9, determine P if $i = 10\%$.

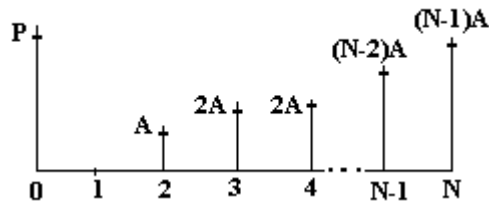


Fig. 8

9. How much should be deposited each year for 12 years if you wish to withdraw \$ 309 each year for five years, beginning at the end of the 15th year? Assume $i = 8\%$. Draw the cash flow.

10. Suppose that \$ 10,000 is borrowed at 15 % interest rate. An amount of \$ 3,000 is paid after 4 years. Determine the rest of the loan to be paid after 6 years. Draw the cash flow.

11. For the cash flow shown in Fig. 10, find P if $A = \$ 100$ and $i = 12\%$.

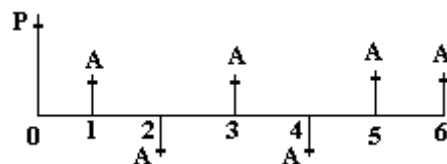


Fig. 11

12. One deposits \$ 676 monthly and after 4 years he got \$ 200,000. Find the annual interest rate.

13. For the cash flow shown in Fig. 11, each period is one year and the interest rate is 12 %. Find P and F.

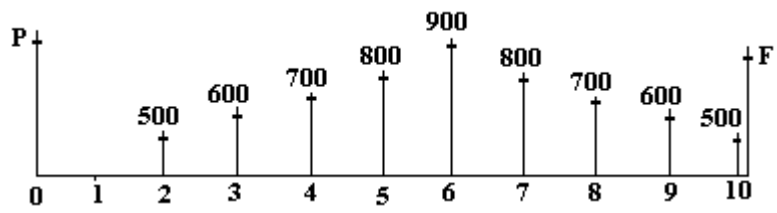


Fig. 13

14. Find the present value P of the geometric series shown assuming that the interest rate is 15 %.

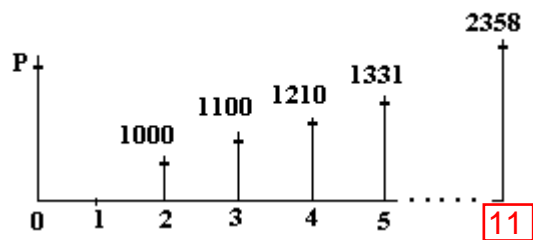


Fig. 14