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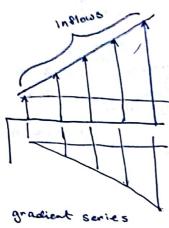


(F/ A4, 1%, T)

given Annual value, interest all years

华 (PlA, ;%,n)

· Compounding and Discounting Interest



gradient series (Not In Syllabus)

1. A gerson deposits a sum of \$20,000 at an interest rate of 18%, per annum compounding annually for 10 yes. Find the materity walne after 10 yes.

2. A gensor wante to have a sum of Re 1,00,000 after 10 year from now. Then what has to be the present amount to be invested when i= 15% per amount annum companing annually.

P= (1+i)n = B 24718.47

4. How long it will take to 500 to convert wite to 1000 when the interest rate & is 15% of ger annum compounding analy.

Teth 1 12 lacs 4 lace 10

Tesh 3 18 lace 5 lace 10

If the nate of i inhant is 20% ger annum, then find out the best alternative on the basis of the present worth.

Tera!
$$P(1+i)^{n} = A \left[\frac{(1+i)^{n}-1}{i} \right]$$

$$= A \left[\frac{(1+0.2)^{10}-1}{0.2} \right]$$

= 103.83

6. A project start will an intimal investment of 12 40,000 and at in superstand to generate a series of coal flow and 23,4008, 388 8,2888, 388 8,2888, 1000. For most 5 ym respectively. If i=0.10 pur anim, then fil whether the project shall be accepted or not:

+ 2000 (1+i) + 4000 (1+i) + 3000 (1+i) 5

= -10,000 + 4545.45 + 3.305.78+ 2253.94 + 1366.02 + 620.92

= - 10,000 + 12092.11

= 2092.11

it wil be accepted (Am)