ECON Assignment 2

May 27 2020

F 900 000 V320 650.57

N=30 1=0.035

(F/P,:,N)?

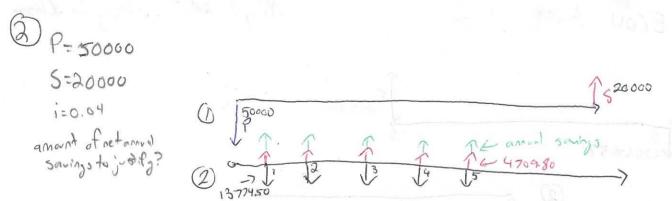
(F/P, 0.035, 30) = (1+0.035) 30

= 2.806793706

F=P(F/P)

P= F/(F/P)

= 900 000 2,806793705 - 320650.57



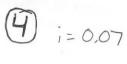
i) 
$$(A/P_{10.04}, 4) = \frac{0.04(1.04)^{4}}{1.04^{4}-1} = 0.275490045$$
  
 $A = 50000(0.275490045) = $13774.50$ 

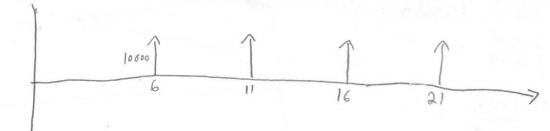
A-20000 +0.235490045 = \$4709.80

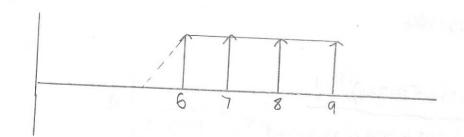
$$\frac{9}{1} = \frac{1+0.10}{1+0.15} - 1$$

= 18.95895718 (10000)

10000

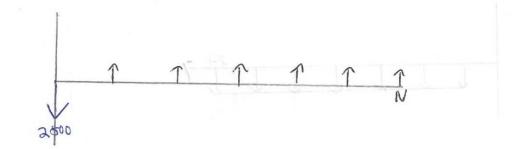




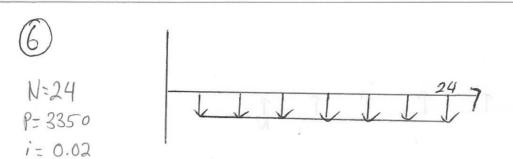


18422.

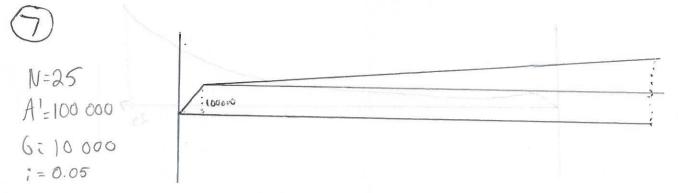
- 18422 (0.712986179)
- = \$ 13134.63



$$2500 = A(P/A, i, N), 0.01(1.01)^{N} - 1 = (1.01)^{N} - 100$$

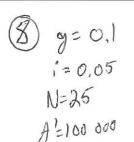


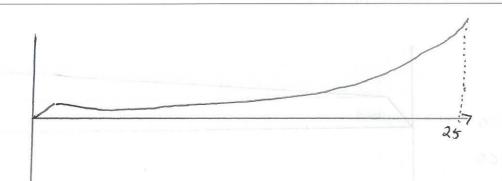
A: 
$$P(A/P, N)$$
,  $\frac{0.02(1+0.02)^{24}}{(1+0.02)^{24}-1} = 0.052871097$ 



i) 
$$A = A' + G(A/6, i, N)$$
,  $\frac{1}{0.05} - \frac{25}{1.05^{25} - 1} = 9.52377135$   
 $A = 100000 + 10000 (9.52377135)$   
 $-100000 + 95237.71$   
 $-195237.71$ 

... Ray's offer is not a good deal, as she would lose approximately \$250 000





- : \$4399037.39
- ... Ray's offer is lover than Oriana's lottery winnings, and is therefore not a good deal