UNIVERSIDAD DEL SURESTE

LICENCIATURA EN ADMINISTRACIÓN Y ESTRATEGIAS DE NEGOCIO.

TERCER CUATRIMESTRE

MATEMÁTICAS FINANCIERAS.

EJERCICIOS

QUE PRESENTA:

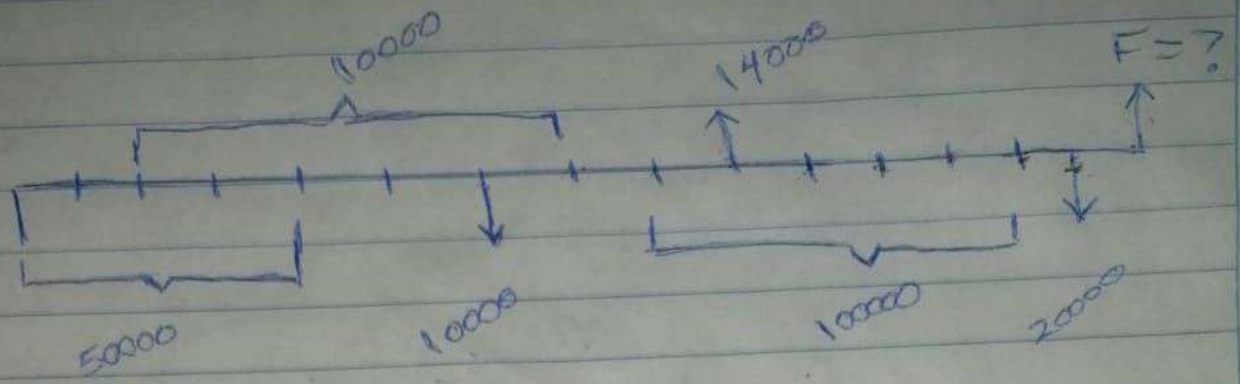
PRISCILA ALEJANDRA LÓPEZ GÓMEZ

DOCENTE:

JORGE ENRIQUE ALBORES AGUILAR

09 de julio del 2022.

$i = 3.1\%$



$$F = 50000\left[\frac{(1+0.031)^5-1}{0.031}\right](1+0.031)^{11} = 372140.85$$

$$F = 10000\,(1+0.031)^9 = 13162.18$$

$$F = 100000\left[\frac{(1+0.031)^6-1}{0.031}\right](1+0.031)^2 = 689295.38$$

$$F = 20000\,(1+0.031)^1 = 20620$$

$$1095218.41$$

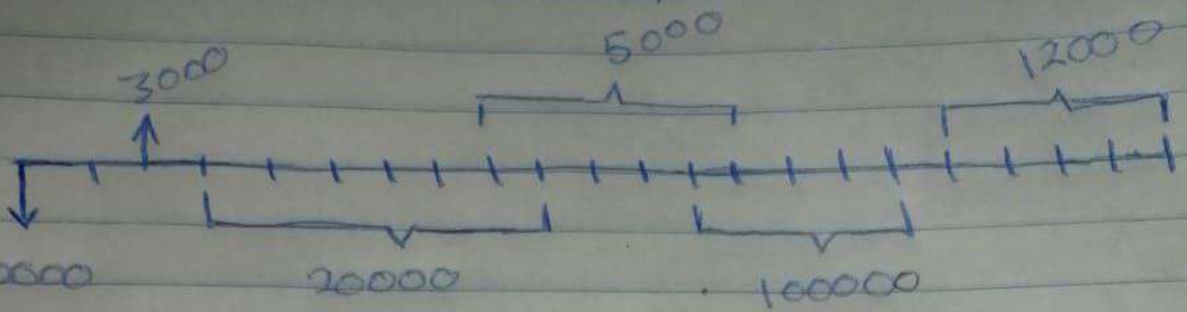
$$F = 10000\left[\frac{(1+0.031)^6-1}{0.031}\right](1+0.031)^8 = 82786.08$$

$$F = 14000\,(1+0.031)^6 = 16814.34$$

$$99600.42$$

$$F = 995617.99$$

$i = 2\%$



$P_1 = 50000$

$P_2 = 20000\left[\frac{1-(1+0.02)^{-7}}{0.02}\right]\left(\frac{1}{(1+0.02)^2}\right) = 124413.51$

$P_3 = 100000\left[\frac{1-(1+0.02)^{-5}}{0.02}\right]\left(\frac{1}{(1+0.02)^{11}}\right) = 379086.12$

553499.63

$P_1 = 12000\left[\frac{1-(1+0.02)^{-5}}{0.02}\right]\left(\frac{1}{(1+0.02)^{16}}\right) = 41201.99$

$P_2 = 5000\left[\frac{1-(1+0.02)^{-6}}{0.02}\right]\left(\frac{1}{(1+0.02)^{7}}\right) = 24381.91$

$P_3 = \frac{3000}{(1+0.02)^2} = 2883.50$

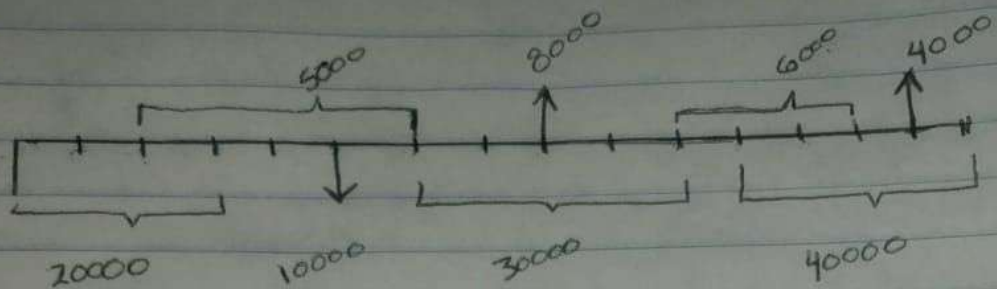
68467.4

553499.63

$-\ 68467.4$

Resultad Final $= 485,032.23$

$i = 2.2\%$



$P_1 = 20000$

$P_2 = 20000\left[\frac{1-(1+0.022)^{-3}}{0.022}\right] = 57453.70$

$P_3 = \frac{10000}{(1+0.022)^5} = 8969.03$

$P_4 = 30000\left[\frac{1-(1+0.022)^{-5}}{0.022}\right]\left(\frac{1}{(1+0.022)^5}\right) = 126092.63$

$P_5 = 40000\left[\frac{1-(1+0.022)^{-5}}{0.022}\right]\left(\frac{1}{(1+0.022)^{10}}\right) = 150790.50$

363305.86

$-\ 51289.9$

Total Final $= 312015.96$

$P_1 = 5000\left[\frac{1-(1+0.022)^{-5}}{0.022}\right]\left(\frac{1}{(1+0.022)^1}\right) = 22926.72$

$P_2 = \frac{8000}{(1+0.022)^8} = 6721.75$

$P_3 = 6000\left[\frac{1-(1+0.023)^{-4}}{0.022}\right]\left(\frac{1}{(1+0.022)^9}\right) = 18691.94$

$P_4 = \frac{4000}{(1+0.022)^{14}} = 2949.49$

51289.9