UNIVERSIDAD DEL SURESTE

LICENCIATURA EN ADMINISTRACIÓN Y ESTRATEGIAS DE NEGOCIO.

TERCER CUATRIMESTRE

MATEMÁTICAS FINANCIERAS.
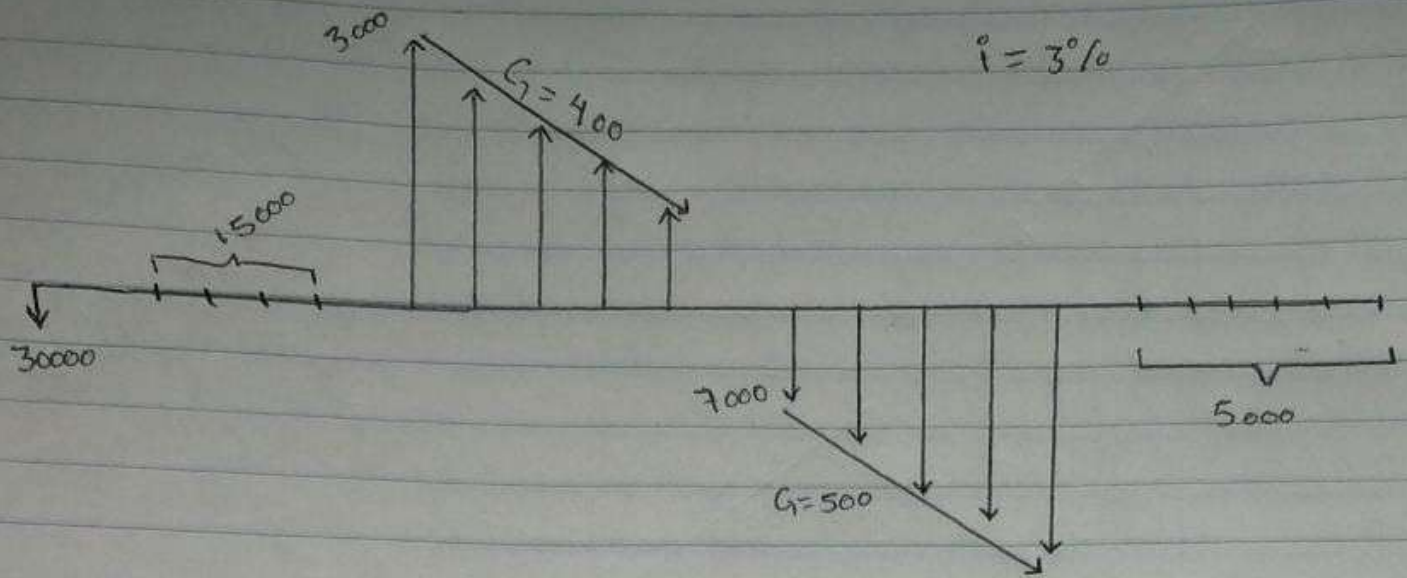
EJERCICIOS

QUE PRESENTA:

PRISCILA ALEJANDRA LÓPEZ GÓMEZ

DOCENTE:

JORGE ENRIQUE ALBORES AGUILAR

31 de julio del 2022.

$i = 3\%$

$P = 30000$

$$PTG = 7000\left[\frac{1-(1+0.03)^{-5}}{0.03}\right] + \frac{500}{0.03}\left[\frac{1-(1+0.03)^{-5}}{0.03} - \frac{5}{(1+0.03)^5}\right] = 36502.33$$

$$PTG = \left(\frac{36502.33}{(1+0.03)^9}\right) = 27975.99$$

$$PTG = 5000\left[\frac{1-(1+0.03)^{-6}}{0.03}\right]\left(\frac{1}{(1+0.03)^{14}}\right) = \frac{17907.00}{75882.99}$$

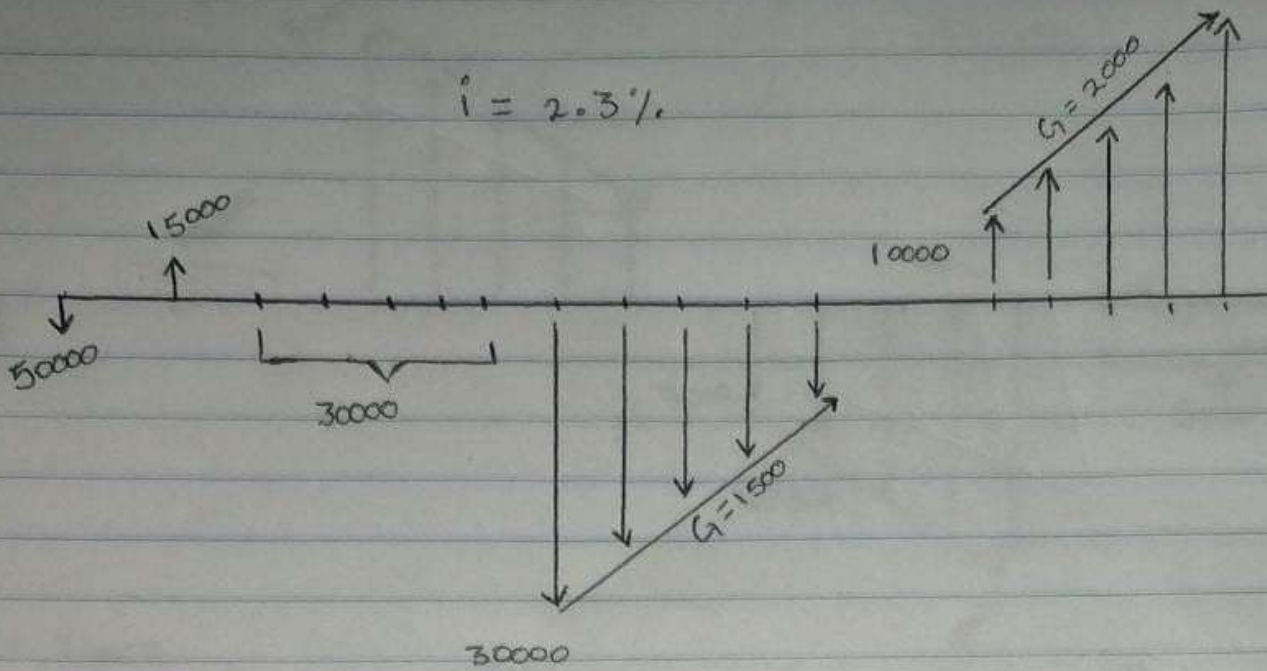$$P = 15000\left[\frac{1-(1+0.03)^{-4}}{0.03}\right] = 55756.47$$

$$PTG = 3000\left[\frac{1-(1+0.03)^{-5}}{0.03}\right] - \frac{400}{0.03}\left[\frac{1-(1+0.03)^{-5}}{0.03} - \frac{5}{(1+0.03)^5}\right]$$

$$PTG = \left(\frac{10183.61}{(1+0.03)^4}\right) = \frac{9048.00}{64804.47} \quad \text{Resultado Final}$$

11078. 52

$$i = 2.3\%$$

15000

50000

30000

$G = 1500$

30000

10000

$G = 2000$

$P = 50000$

$$P = 30000\left[\frac{1-(1+0.023)^{-5}}{0.023}\right]\left(\frac{1}{(1+0.023)^1}\right) = 137029.24$$

$$PTG = 30000\left[\frac{1-(1+0.023)^{-5}}{0.023}\right] - \frac{1500}{0.023}\left[\frac{1-(1+0.023)^{-5}}{0.023} - \frac{5}{(1+0.023)^5}\right] = 126481.51$$

$$PTG = \left(\frac{126481.51}{(1+0.023)^6}\right) = \frac{110350.22}{297379.46}$$

$$PTG = 10000\left[\frac{1-(1+0.023)^{-5}}{0.023}\right] + \frac{2000}{0.023}\left[\frac{1-(1+0.023)^{-5}}{0.023} - \frac{5}{(1+0.023)^5}\right] = 64992.83$$

$$PTG = \left(\frac{64992.83}{(1+0.03)^{11}}\right) = 50609.66$$

Resultado Total

$$= 232107.05$$

$$P = \frac{15000}{(1+0.023)^1} = \frac{14662.75}{65272.41}$$