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**Nombre del trabajo: Ingresos y
egresos futuro y presente**

Materia: Matematicas Financieras

PASIÓN POR EDUCAR

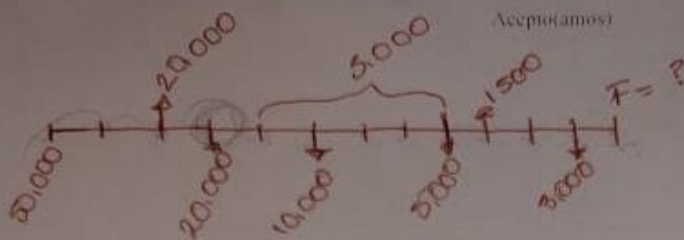
Grado: 3er Cuatrimestre

Grupo: LAN02SDC0121 A

Comitán de Domínguez Chiapas a 14 de junio de 2022

$$i = 3.5\% = 0.035$$

Aceptamos



Futuro ingresos

$$F_1 = 50,000 (1 + 0.035)^{12} = 75,553.43$$

$$F_2 = 20,000 (1 + 0.035)^7 = 27,257.94$$

$$F_3 = 10,000 (1 + 0.035)^7 = 12,722.79$$

$$F_4 = 5,000 (1 + 0.035)^4 = 5,737.61$$

$$F_5 = 3,000 (1 + 0.035)^1 = 3,105$$

$$124,376.77$$

Futuro de egresos

$$F_1 = 20,000 (1 + 0.035)^{10} = 28,211.97$$

$$F_2 = 5,000 \left[\frac{(1 + 0.035)^5 - 1}{0.035} \right] (1 + 0.035)^4 = 30,767.76$$

$$F_3 = 1500 (1 + 0.035)^3 = 1,663.07$$

$$60,642.80$$

$$FT = 124,376.77 - 60,642.80 =$$

$$F_T = 63,733.97$$

Presente ingresos

$$P_1 = 50,000$$

$$P_2 = \frac{20,000}{(1 + 0.035)^2} = 18,038.85$$

$$P_3 = \frac{10,000}{(1 + 0.035)^5} = 8,419.73$$

$$P_4 = \frac{5,000}{(1 + 0.035)^8} = 3,797.05$$

$$P_5 = \frac{3,000}{(1 + 0.035)^1} = 2,054.83$$

$$82,310.46$$

Presente egresos

$$P_1 = \frac{20,000}{(1 + 0.035)^2} = 18,670.21$$

$$P_2 = \frac{5,000 \left[1 - (1 + 0.035)^{-5} \right]}{0.035} \left[\frac{1}{(1 + 0.035)^2} \right]$$

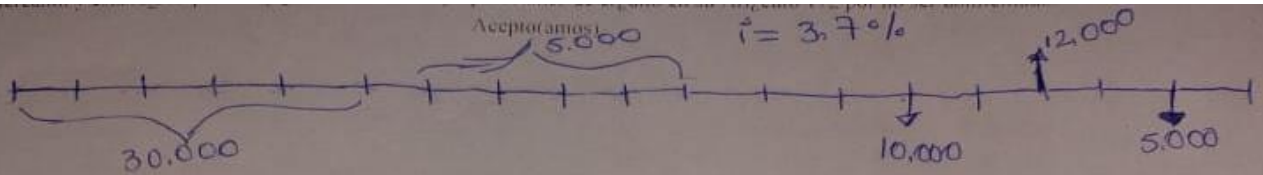
$$P_2 = 20,361.59$$

$$P_3 = \frac{1,500}{(1 + 0.035)^9} = 1,100.59$$

$$40,132.39$$

$$P_T = 82,310.46 - 40,132.39$$

$$P_T = 42,178.07$$



Futuro ingresos

$$F_1 = 30,000 \left[\frac{(1+0.037)^6 - 1}{0.037} \right] [(1+0.037)^3] = 316,722.49$$

$$F_2 = 10,000 (1+0.037)^5 = 11,992.05$$

$$F_3 = 5,000 (1+0.037)^1 = 5,185$$

$$\underline{333,899.54}$$

Futuro egresos

$$F_1 = 5,000 \left[\frac{(1+0.037)^5 - 1}{0.037} \right] [(1+0.037)^3] = 35,997.84$$

$$F_2 = 12,000 (1+0.037)^3 = 13,381.89$$

$$\underline{49,381.73}$$

$$F_T = 333,899.54 - 49,381.73$$

$$F_T = \underline{284,517.81}$$

P ingresos

$$P_1 = 30,000$$

$$P_2 = \frac{30,000 [1 - (1+0.037)^{-5}]}{0.037} \left[\frac{1}{(1+0.037)^3} \right] = 139,671.19$$

$$P_3 = \frac{10,000}{(1+0.037)^3} = 6,235.57$$

$$P_4 = \frac{5,000}{(1+0.037)^4} = 2,696.06$$

$$\underline{178,602.82}$$

P egresos

$$P_1 = \frac{5,000 [1 - (1+0.037)^{-5}]}{0.037} \left[\frac{1}{(1+0.037)^5} \right] = 26,919.72$$

$$P_2 = \frac{12,000}{(1+0.037)^5} = 6,958.24$$

$$\underline{33,877.96}$$

$$P_T = 178,602.82 - 33,877.96$$

$$P_T = \underline{144,724.86}$$