

Fecha de entrega 14 de junio
del 2022.



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Profesor: Jorge Enrique Albores

Ejercicios 2

3 cuatrimestre

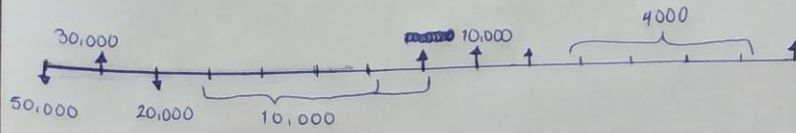
Lic. En contaduría pública y finanzas

Materia: Matemáticas financieras.

LUIS ANTONIO ALFARO PÉREZ.

TRABAJO 2.

FECHA DE ENTREGA 14/06/22.



$$i = 3\%$$

$$F = P(1+i)^n$$

$$50,000 (1+0.03)^{14} = 75,629.48$$

$$20,000 (1+0.03)^2 = 28,515.21$$

$$\rightarrow 169,292.36$$

$$1 - 0.03^5 = \frac{0.03}{0.03} = 10,000 \times 1.03^{17} = 65,292.67.$$

$$30,000 (1+0.03)^3 = 44,056.01$$

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

$$10,000 (1+0.03)^6 = 11,940.52$$

$$\rightarrow 73,233.07$$

$$1 - 0.03^{14} = \frac{0.03}{0.03} = 4000 \times 1.03^{11} = 17,236.54.$$

$$\text{Total Futuro} = 96,204.29.$$

PRESENTE TOTAL.

$$\frac{20,000}{(1+0.03)^2} = 18,851.91.$$

$$\frac{F}{(1+i)^n}$$

$$1 - 1.03^{-5} = \frac{0.03}{0.03} = 10,000 = \frac{0.03}{0.03} \times 1.03^{12} = 43,168.13.$$

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

$$= 112,020.04.$$

$$\frac{F}{(1+i)^n} = \frac{30,000}{(1+0.03)^1} = 29,126.21.$$

$$\frac{10,000}{(1+0.03)^8} = 7,894.09.$$

$$\rightarrow 48,415.68.$$

$$1 - 1.03^{-4} = \frac{0.03}{0.03} = 4000 = \frac{0.03}{0.03} \times 1.03^9 = 11,395.38$$

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

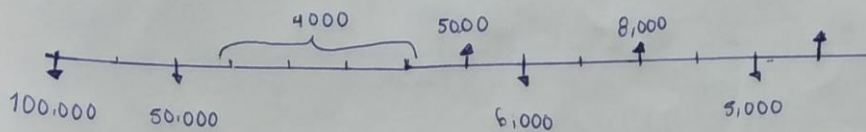
$$112,020.04 - 48,415.68$$

Presenta total

$$= 63,604.36$$

FUTURO TOTAL Y PRESENTE TOTAL.

FECHA DE ENTREGA 14/06/22. EJERCICIOS 2



$$100,000 (1+0.022)^{13} = 132,697.16$$

$$F = P(1+i)^n$$

$$50,000 (1+0.022)^{11} = 63,522.83$$

$$6000 (1+0.022)^3 = 6,689.68$$

$$\rightarrow 208,019.67$$

$$5000 (1+0.022)^1 = 5,110$$

$$1 \cdot 0.022^4 - 1 = \frac{0.022}{i} = x 4000 = x 1.022^6 = 18,842.14$$

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

$$5000 (1+0.022)^6 = 5,697.38$$

$$\rightarrow 33,079.22$$

$$8000 (1+0.022)^3 = 8,539.70$$

$$\text{FUTURO TOTAL DE} = 174,940.45$$

PRESENTE TOTAL.

$$P_1 = 100,000$$

$$\frac{50,000}{(1+0.022)^2} = 47,870.52$$

$$\frac{F}{(1+i)^n}$$

$$P_2 = 47,870.52$$

$$P_3 = 5,041.31$$

$$\frac{6000}{(1+0.022)^8} = 5,041.31$$

$$\frac{5000}{(1+0.022)^{12}} = 3850.87$$

$$P_4 = 3850.87$$

$$1 \cdot 0.022^4 - 1 = \frac{0.022}{i} = 4000 = x 1.022^6 = 14,511.73$$

$$P = \left(\frac{1 - (1+i)^{-n}}{i} \right)$$

$$P_1 = \frac{5000}{(1+0.022)^1} = 4,129.52$$

$$\frac{F}{(1+i)^n}$$

$$P_2 = \frac{8000}{(1+0.022)^{10}} = 6435.48$$

$$\text{PRESENTE DE} = 131,522.18$$