



Nombre de alumno:

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Nombre del profesor:

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Nombre del trabajo:

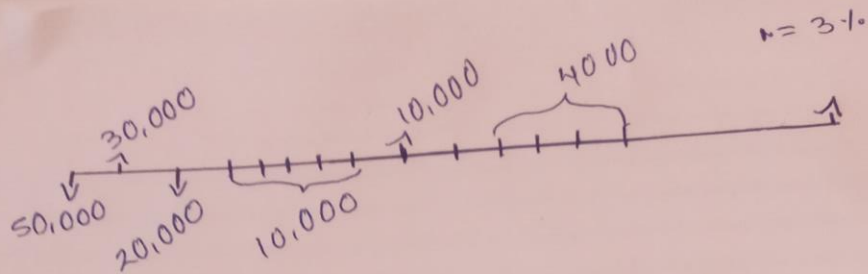
Ejercicios 2

Materia:

Matemáticas financieras

Grado:

3er cuatrimestre



$$f_i = 50,000 (1+0.03)^{14} = 75629.48$$

$$f_i = 20,000 (1+0.03)^{12} = 28515.21$$

$$f_i = 10,000 \left(\frac{1+0.03}{0.03} \right)^5 - 1 \left(\frac{1}{1+0.03} \right)^7 =$$

$$f_i = 1.03^{75} - 1 = \div 0.03 = \times 10000 = \times 1.03^{27} = 65,292.67$$

$$169,437.36$$

$$f_e = 30,000 (1+0.03)^{13} = 44056.01$$

$$f_e = 10,000 (1+0.03)^6 = 11940.52$$

$$f_e = 4000 \left(\frac{1+0.03}{0.03} \right)^4 - 1 \left(\frac{1}{1+0.03} \right)^1 =$$

$$f_e = 1.03^{24} - 1 = \div 0.03 = \times 4000 = \times 1.03^{21} = 17236.54$$

$$73233.07$$

$$\text{futuro total} = 96204.29$$

$$P_1 = 50,000$$

$$P_2 = \frac{20,000}{(1.03)^2} = 18851.91$$

$$P_3 = 10000 \left[\frac{1 - (1 + 0.03)^{-5}}{0.03} \right] \left[\frac{1}{1 + 0.03^2} \right] =$$

$$P_3 = 1 - 1.03^{-5} = \div 0.03 = \times 10000 = \div 1.03^2 = 43.168.13$$

$$112020.04$$

$$P_{e1} = \frac{30,000}{1.03^1} = 29126.21$$

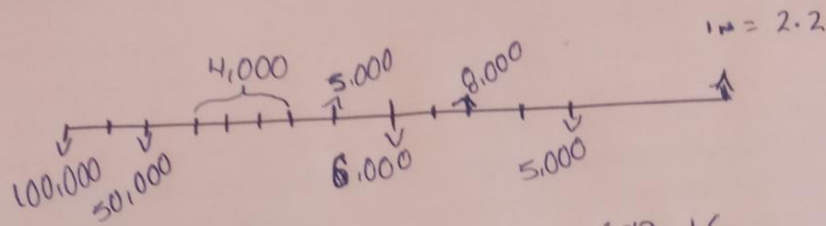
$$P_{e2} = \frac{10,000}{1.03^8} = 7894.09$$

$$P_{e3} = 4000 \left[\frac{1 - (1 + 0.03)^{-4}}{0.03} \right] \left[\frac{1}{1 + 0.03^9} \right]$$

$$P_{e3} = 1 - 1.03^{-4} = \div 0.03 = \times 4000 = \div 1.03^9 = 11395.3$$

$$48415.68$$

$$\text{Presente total} = 63604.36$$



$$f_1 = 100,000 (1 + 0.022)^7 = 132,697.16$$

$$f_1 = 50,000 (1 + 0.022)^6 = 63,522.83$$

$$f_1 = 6,000 (1 + 0.022)^5 = 6,689.68$$

$$f_1 = 5,000 (1 + 0.022)^4 = 5,110$$

$$208,019.67$$

$$f_e = 4,000 \left(\frac{1 + 0.022^4 - 1}{0.022} \right) \left(\frac{1}{1 + 0.022} \right)^7$$

$$f_e = 1.022^4 - 1 \div 0.022 \times 4,000 = \times 1.022^{27} = 18,842.14$$

$$f_e = 5,000 (1 + 0.022)^6 = 5,697.38$$

$$f_e = 8,000 (1 + 0.022)^3 = 8,539.70$$

$$33,079.22$$

$$f_{\text{futuro total}} = 174,940.45$$

$$P_r = 100,000$$

$$P_2 = \frac{50,000}{(1+0.022)^2} = 47870.52$$

$$P_3 = \frac{6,000}{(1+0.022)^8} = 5,041.31$$

$$P_4 = \frac{5,000}{(1+0.022)^{12}} = 3850.87$$

$$156762.7$$

$$P_1 = 4000 \left[\frac{1 - (1+0.022)^{-4}}{0.022} \right] \left[\frac{1}{(1+0.022)} \right]$$

$$1.022^{-4} - 1 = \div 0.022 = \times 4000 = \div 1.022^2 = 14511.73$$

$$P_2 = \frac{5000}{(1+0.022)^7} = 4293.52$$

$$P_3 = \frac{8,000}{(1+0.022)^{10}} = 6435.48$$

$$25240.79$$

Presente total . 131 521.97