

UNIVERSIDAD DE EL SALVADOR  
FACULTAD MULTIDISCIPLINARIA ORIENTAL  
DEPARTAMENTO DE INGENIERÍA Y ARQUITECTURA



INGENIERÍA ECONÓMICA

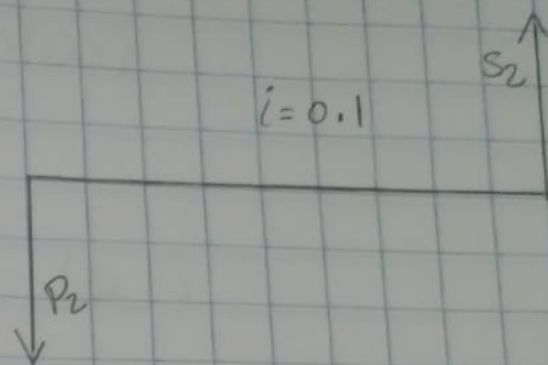
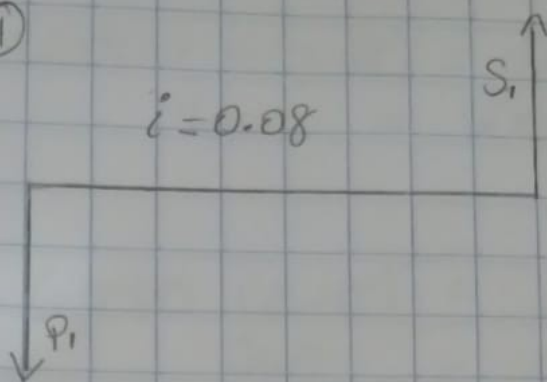
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①



$$P_1 - P_2 = 5000 \text{ eq 1}$$

$$I_1 = I_2 \text{ eq 2}$$

$$P_1 n i = P_2 n i$$

$$P_1 n (0.08) = P_2 n (0.1)$$

$$\underline{P_1 n (0.08) = P_2 (0.1)}$$

$$\frac{0.08 P_1}{0.1} = 0.1 P_2$$

$$\underline{\frac{0.08 P_1}{0.1} = P_2}$$

$$P_1 - P_2 = 5000$$

$$P_1 - \frac{0.08 P_1}{0.1} = 5000$$

$$P_1 - \frac{4}{5} P_1 = 5000$$

$$0.2 P_1 = 5000$$

$$P_1 = \frac{5000}{0.2}$$

$$\underline{P_1 = 25000}$$

$$I_1 = I_2$$

$$25000 (0.08) = 2000 (0.1)$$

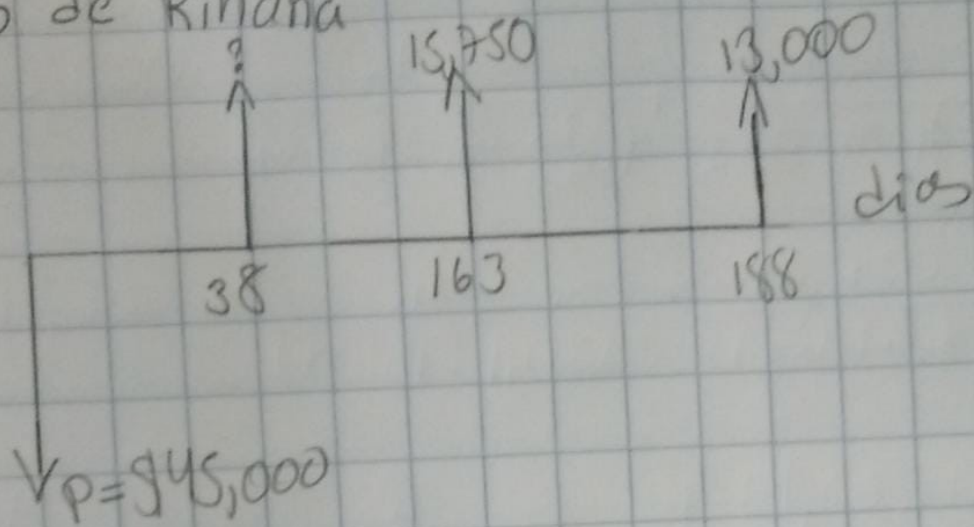
$$2000 = 2000$$

$$25000 - P_2 = 5000$$

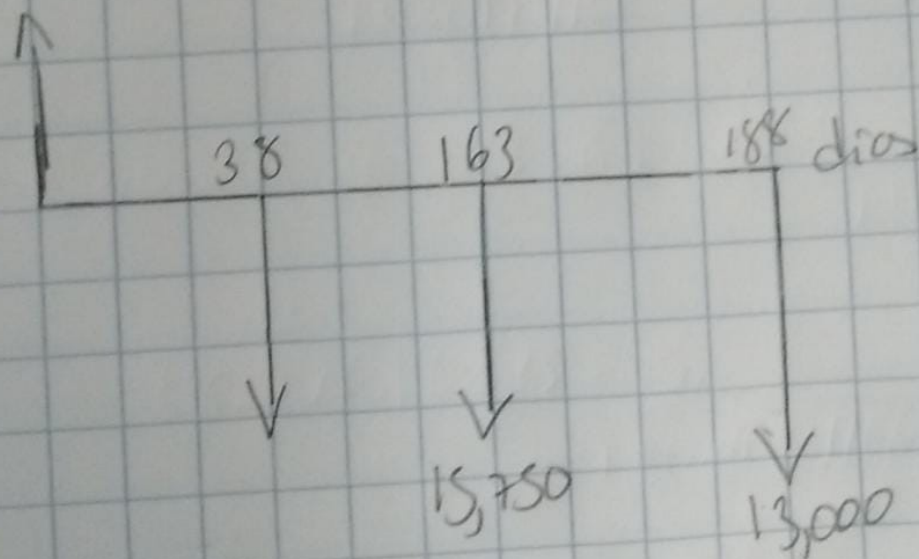
$$P_2 = 25000 - 5000$$

$$\underline{P_2 = 20,000}$$

Flujo de Rihanna



Flujo de Taylor



$$② \quad 45,000 = \frac{S_1}{1 + (0.165)\left(\frac{38}{360}\right)} + \frac{15,750}{1 + (0.165)\left(\frac{163}{360}\right)} + \frac{13,000}{1 + (0.165)\left(\frac{188}{360}\right)}$$

$$45,000 = \frac{S_1}{1 + 0.01741666} + \frac{15,750}{1.074708333} + \frac{13,000}{1.08616667}$$

$$45,000 = \frac{S_1}{1 + 0.0174166} + 14,655.13899 + 11,968.69725$$

$$45,000 = \frac{S_1}{1 + 0.0174166} + 26,623.83625$$

$$45,000 - 26,623.83625 = \frac{S_1}{1 + 0.0174166}$$

$$18,376.16375 = \frac{S_1}{1 + 0.0174166}$$

$$18,376.16375(1 + 0.0174166) = S_1$$

$$18,376.16375 + 320.0515064 = S_1$$

$$\underline{18,696.22 = S_1}$$

$$P_1 = \frac{18,696.21}{1 + (0.165)\left(\frac{38}{360}\right)} = 18,376.16$$

$$P_2 = 14,655.14$$

$$P_3 = 11,968.70$$

$$\underline{45,000}$$