

# EJERCICIOS

1) Datos

$$C_1 = 13000$$

$$C_2 = 15000$$

$$t_1 = 3 \text{ años}$$

$$t_2 = 5 \text{ años}$$

$$K = 10\%$$

$$2) C'' = 30000$$

$$t_{C''} = \frac{30000 \cdot (13000(1-10\% \cdot (3)^{-1}) + 15000(1-10\% \cdot (5)^{-1}))}{30000 \times 10\%}$$

$$t_{C''} = 4,47 \text{ años} \downarrow$$

$$b) C'' = 13000 + 15000 = 28000$$

$$t_{C''} = \frac{13000 \cdot 3 + 15000 \cdot 5}{28000} = 4,07 \text{ años} \downarrow$$

2) Datos

$$C_1 = 160$$

$$C_2 = 200$$

$$C_3 = 225$$

$$t_1 = 45 \text{ meses}$$

$$t_2 = 90 \text{ meses}$$

$$t_3 = 120 \text{ meses}$$

$$K = 10\% \text{ sem} \rightarrow 10\% \text{ anual}$$

$$a) C'' = 600$$

$$t_{C''} = \frac{600(150(1-5\% \cdot 45) + 200(1-5\% \cdot 90) + 225(1-5\% \cdot 120))}{600 \cdot 5\% \cdot 13}$$

$$t_{C''} = 88,75 \downarrow$$

$$b) C'' = 575$$

$$t_{C''} = \frac{150 \cdot 45 + 200 \cdot 90 + 225 \cdot 120}{575}$$

$$t_{C''} = 90 \downarrow$$

Nº \_\_\_\_\_

Tema: \_\_\_\_\_

Fecha \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

3) Data

$$C_1 = 800$$

$$C_2 = 1500$$

$$C_3 = 3200$$

$$t_1 = 20 \text{ días}$$

$$t_2 = 45 \text{ días}$$

$$t_3 = 60 \text{ días}$$

$$K = 8\% \rightarrow \frac{1}{73\%} \text{ diario}$$

Bye  $t=0$ 

$$C_1 = 800 \left( 1 - \frac{1}{73\%} \cdot 20 \right) = 797,81 \$$$

$$C_2 = 1500 \left( 1 - \frac{1}{73\%} \cdot 45 \right) = 1440,75 \$$$

$$C_3 = 3200 \left( 1 - \frac{1}{73\%} \cdot 60 \right) = 3173,70 \$$$

$$C = 5462,26 \$$$

$$a) C'' = 6000 \$$$

$$C = C'(1-dt) \quad b) C'' = 5500$$

$$t_{C''} = 1 - \frac{5462,26}{6000} \cdot \frac{1}{73\%}$$

$$t_{C''} = 654,25 \text{ días}$$

$$\lceil t_{C''} = 1 \text{ año } 9 \text{ meses } 24 \text{ días} \rceil$$

$$t_{C'} = 1 - \frac{5462,26}{5500} \cdot \frac{1}{73\%}$$

$$t_{C''} = 50,09 \text{ días}$$

$$\lceil t_{C''} = 1 \text{ mes } 20 \text{ días} \rceil$$