

$$\textcircled{1} \quad t = ?, \quad M = \$6,220, \quad \Delta = 29\% \\ D = \$407.50$$

$$D = M \Delta t$$

$$t = \frac{D}{M \Delta} \quad t = \frac{407.50}{(6220)(0.29)}$$

$$t = 0.2226 \text{ año}$$

$$0.2226(12) = 2.67 \text{ meses}$$

$$0.67(30) = 20.1 \text{ días}$$

R/ 2 meses y 20 días

$\textcircled{2}$ • Saldo al 31 de diciembre
 $i = 207.6\%$ anual simple

$$\begin{array}{l} 3/02 \quad \$900 \\ 2/03 \quad M = 900(1 + (2.076)\left(\frac{27}{365}\right)) \end{array} \quad \begin{array}{l} M = C(1 + it) \\ \frac{207.6\%}{12} = 16.8\% \\ \text{mensual} \end{array}$$

$$M = \$1034.22$$

$$\text{Saldo} = 1034.22 - 230 = \$804.22$$

$$27/05 \quad M = 804.22(1 + (2.076)\left(\frac{80}{365}\right))$$

$$M = \$1,159.58$$

$$\text{Saldo} = 1,159.58 + 350 = \$1509.58$$

$$15/08 \quad M = 1509.58(1 + (2.076)\left(\frac{86}{365}\right))$$

$$M = \$2,226.63$$

$$\text{Saldo} = 2,226.63 - 210 = \$2016.63$$

$$37/70 \quad M = 2016.63 (1 + (2.076) (\frac{77}{365}))$$

$$M = \$2,428.75$$

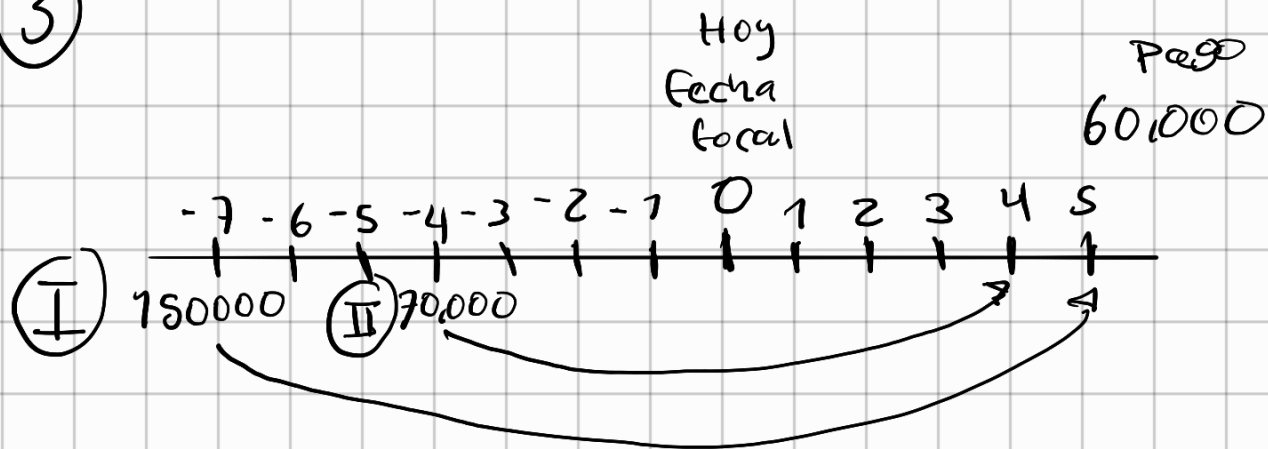
$$\text{Saldo} = 2,428.75 - 120 = \$2308.75$$

$$37/72 \quad M = 2308.75 (1 + (2.076) (\frac{67}{365}))$$

$$M = 3,086.62$$

$$\underline{\text{Saldo} = \$3,086.62}$$

(3)



Deuda I

$$M = 150000 (1 + 0.35 (\frac{12}{12}))$$

$$M = 202,500$$

* Valor en fecha focal

$$C = \frac{M}{1 + iL}$$

$$C = \frac{202,500}{1 + (0.43) (\frac{5}{12})}$$

$$C = \$ 111,737.45$$

Deuda II

$$M = 70,000 (1 + 0.40 (\frac{8}{12}))$$

$$M = 86,666.67$$

• Valor en fecha focal

$$C = \frac{86,666.67}{1 + (0.43)\left(\frac{4}{12}\right)}$$

$$C = \$75,801.75$$

Pago de 60,000 en 5 meses

• Valor en fecha focal

$$C = \frac{60,000}{1 + (0.43)\left(\frac{5}{12}\right)}$$

$$C = 50,883.39$$

• Pago a realizar hoy (X)

Deudas = Pagos

$$777,731.45 + 75,801.75 = 50,883.39 + X$$

$$X = \underline{796,649.81}$$

④ $i = 1.8\%$ mensual, saldo al 31 de octubre
 $M = C(1+i)^n$

10/04 \$ 100,000

10/05 $M = 100,000(1 + 0.018)^1$
 $M = 101,800 - 25,500$
 Saldo = 76,300

10/08 $M = 76,300(1 + 0.018)^3$
 $M = 80,494.81 + 20,500$
 Saldo = \$100,994.81

10/09 $M = 100,994.81 (1 + 0.018)^7$
 $M = 102,812.72 - 55500$
 $Saldo = \$47,312.72$

31/10 $M = 47,312.72 (1 + 0.018)^{7.7}$
 $Saldo = \$48,1769.59$

⑤ $C = 14,500$ $t = 3$ años, $i = 1.2$ compuesto trimestralmente.
 Retira a los 26 meses

$i = 14.4\%$ anual trimestralmente \rightarrow sacar el $i = \frac{14.4}{4} = 3.6\%$
 $i = 0.036$

$n = \frac{26 \text{ meses}}{3} = 8.67$ trimestres

$$M = 14,500 (1 + 0.036)^{8.67}$$

$$M = 19,703.21$$

⑥ $M = C (1 + it)$ Real

$$i = \frac{\left(\frac{M}{C} - 1 \right)}{t} = \frac{\left(\frac{1264.50}{1120} - 1 \right)}{\frac{277}{365}} = 0.17$$

17%

estandar

$$i = \frac{\left(\frac{1264.50}{1120} - 1 \right)}{\frac{277}{365}} = 0.1707 = 17.07\%$$

$$\frac{272}{360}$$