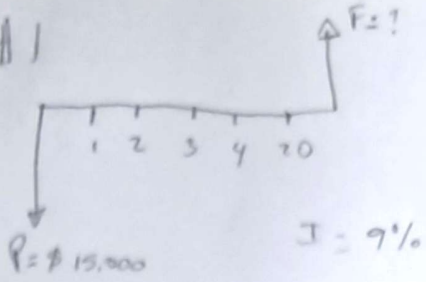
Taller #1



① P = 15.000
i = 009
n = 20

$F = 15{,}000 \times (1+0.09)^{20} = 15{,}000 \times (1.09)^{20}$

$F = 15.000 \times 5.604411 = 84,066,A$

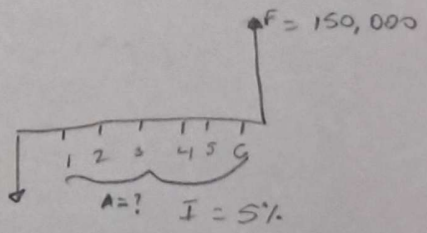
b) $P = \frac{F}{(1+r)^n}$

$P = \frac{100,000}{(1.09)^{20}} = \frac{100,000}{5,60\ 4411}$

$P = 17,840.06$

② $A = F * [i / ((1+i)^n - 1)]$

A = ?
F $150.000
i: 5%
n: 6 Años



$150,000 * [0.05 / ((1+0.05)^{\wedge}6 - 1)]$

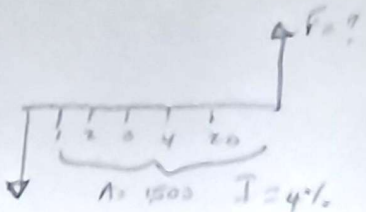
$= 1.3400956$

$= 1.3400956 - 1 = 0.3400956$

$0.05 / 0.3400956 = 0.147017$

$A = 150,000 * 0.147017$

$= \$22,052.55$



③ A= 1,500

i = 0.04

n= 20

$F = 1{,}500 \times \frac{(1.04)^{20}-1}{0.04}$

$F = 1{,}500 \times \frac{2.191123-1}{0.04} = 1{,}500 \times \frac{1.191123}{0.04}$

$F = 1.500 \times 29.7781 = 44{,}667.15$

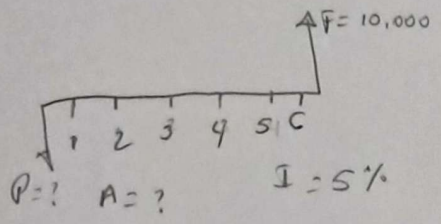
$= \$44{,}667.15$

④ F= 10,000

i = 0.05

n= 6

$A = \frac{F\,X^{r}}{(1+r)^{n}-1}$



$A = \frac{10{,}000 \times 0.05}{(1.05)^{6}-1} = \frac{500}{0.340096}$

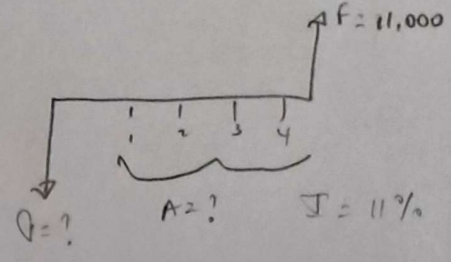
A= 1,470.20

⑤ F= 11,000

i = 0.11

n= 4

$A\ \frac{F\ X\ r}{(1+r)^{n}-1}$



$A = \frac{11{,}000 \times 0.11}{(1.11)^{4}-1} = \frac{1{,}210}{0.5181}$

A= 2,335.63