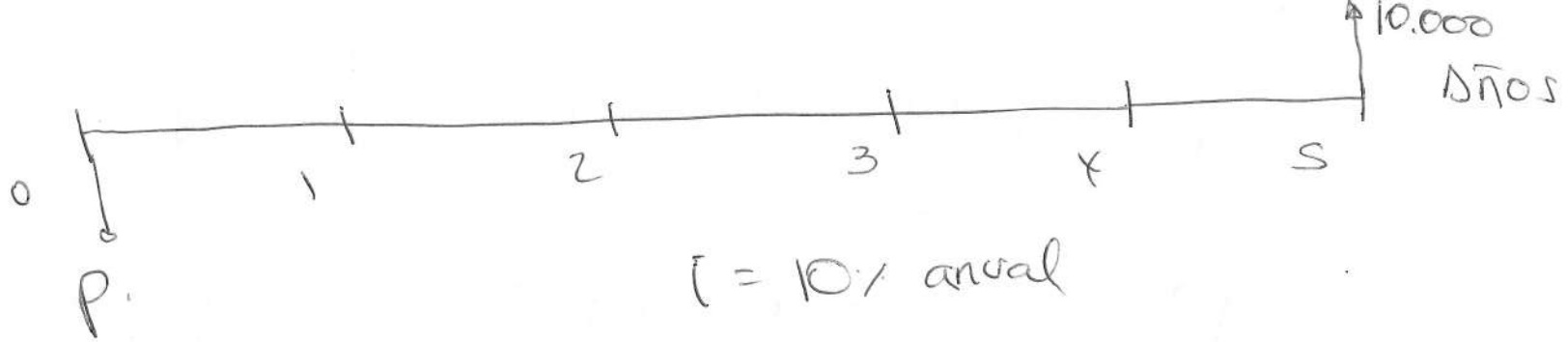
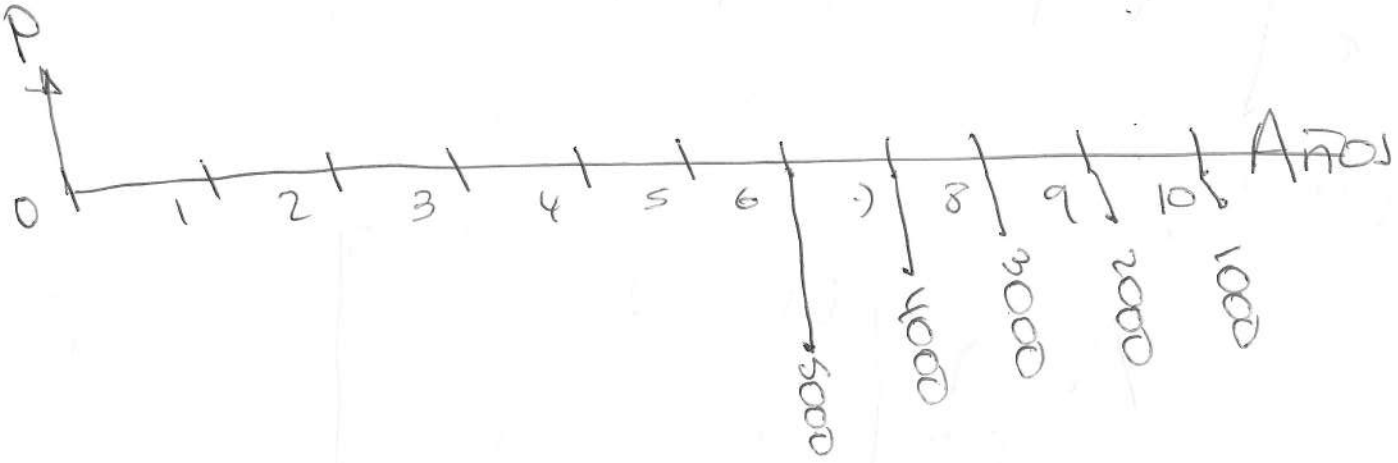
5)



$i = 10\%$ anual

$$P = \frac{10\,000}{(1+0.10)^5} = \$6.209^{21}$$

6)



$i = 10\%$

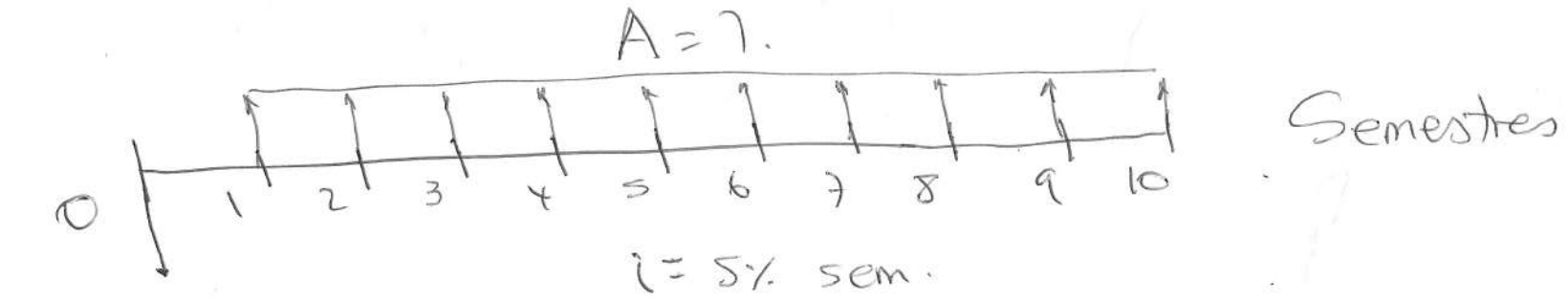
$$X = \frac{5000}{(1+0.10)^6} + \frac{4000}{(1+0.10)^7} + \frac{3000}{(1+0.10)^8} + \frac{2000}{(1+0.10)^9} + \frac{1000}{(1+0.10)^{10}}$$

$$X = \$7.508^{26}$$

7) $F = \$1000.000\ (1+0.20)^5 = \$2.488.320$

8) $F = \$2500.000\ (1+0.035)^{40} = \$9.898.149^{30}$

9)



$$A = P_{100.000}\left[\frac{0.05\,(1+0.05)^{10}}{(1+0.05)^{10}-1}\right] = \$12.950.46$$

10) $i = 28\%$ Nominal anual pag bimestre anticipada

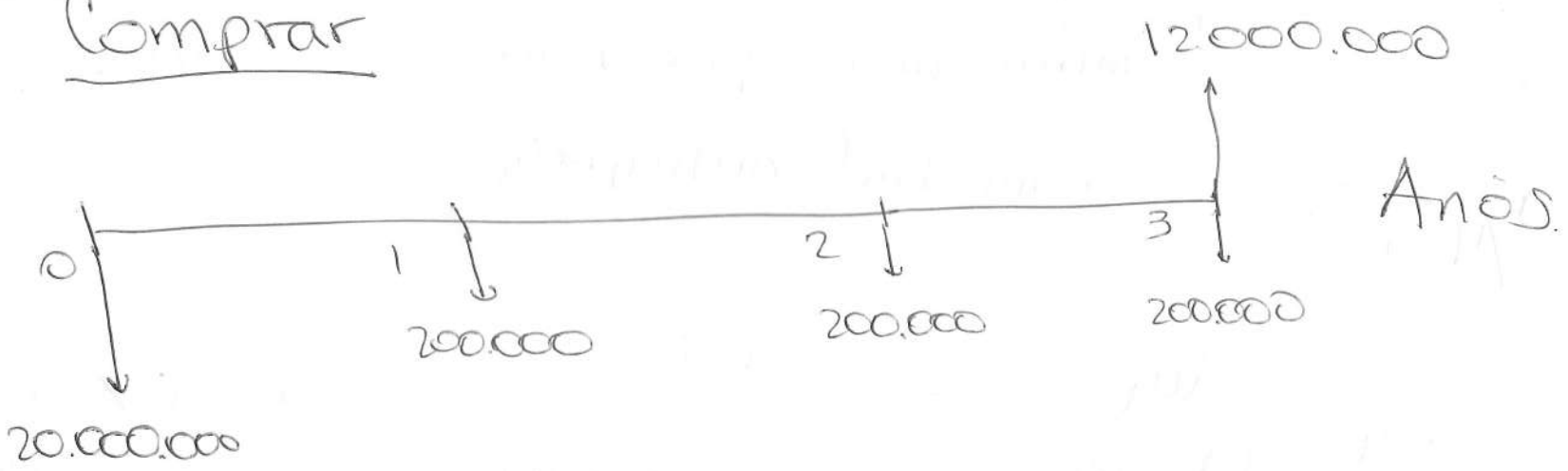
$\frac{i}{n} = 4,66\%$ bimestral anticipada

$$l_{up} = \frac{l_{ap}}{(1 - l_{ap})} = \frac{0.0466}{1 - 0,0466} = 4,895\% \text{ bimestral vencida}$$

$$l_{ef} = \left(1 + 0,04895\right)^{6} - 1 = 33,2077\% \text{ EA}$$

1)

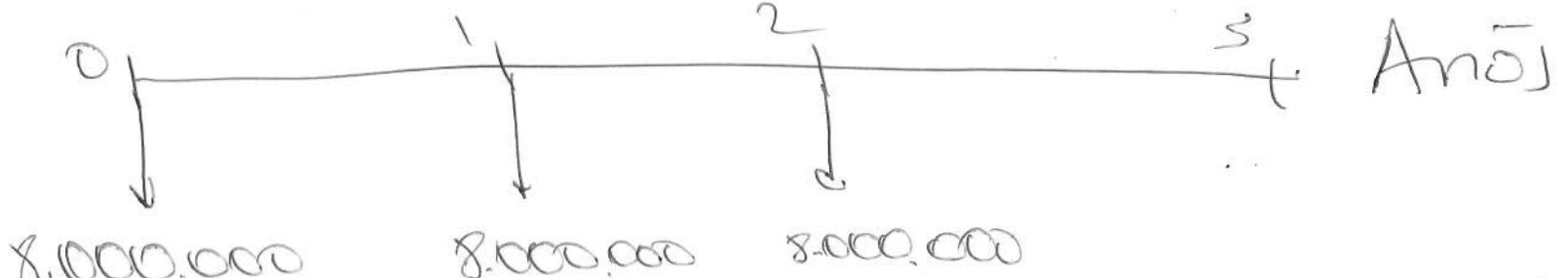
Comprar



$$VPN = -20.000.000 - \frac{200.000}{(1+0.25)} - \frac{200.000}{(1+0.25)^2} + \frac{11.800.000}{(1+0.25)^3}$$

$$= (\$14.246.400)$$

Arriendo



$$VPN = -8.000.000 - \frac{8.000.000}{(1+0.25)} - \frac{8.000.000}{(1+0.25)^2} + \frac{(+19.520.000)}{(1+0.25)^5}$$

$$= (\$15.616.000)$$