N3

1. N = 100

1 · 4

k = 5

a) r = 6%

$$V(0) = 6 \sum_{n=0}^{4} e^{-ir} + 100 e^{-4r}$$

$$= 89.055$$

b) r = 5%.

$$V(0) = 92.55$$

$V(3) = 33.55$ ✓

1) 100
c = 8
T = 8

$$100 = 8\sum_{i=1}^{8} e^{-r\cdot i} + 100\, e^{-r\cdot 8} \Rightarrow r = 9.65\%$$ ✓

[illegible]

N = 1000
T = 10
r = 10 [illegible]

Q) r = 4% [illegible]

$$V(20) = \frac{1000}{\left(1+\frac{0.04}{2}\right)^{20}} + 18\sum_{i=1}^{20} \frac{1}{\left(1+\frac{0.04}{2}\right)^{i}}$$

$$V(20) = B(0, 20) = 964.074$$ ✓

$$1100 = 50 \cdot \sum_{i=1}^{10} \frac{1}{e^{\frac{r}{2} \cdot i}} + 1000 \cdot \frac{1}{e^{\frac{r}{2} \cdot 10}} \Rightarrow r = 2{,}88\%$$

$$\text{TREAL. PRIMOS} = \frac{25}{1100} = 2.27\% \text{ [illegible]}$$

$= \underline{4.54\% \text{ [illegible]}}$

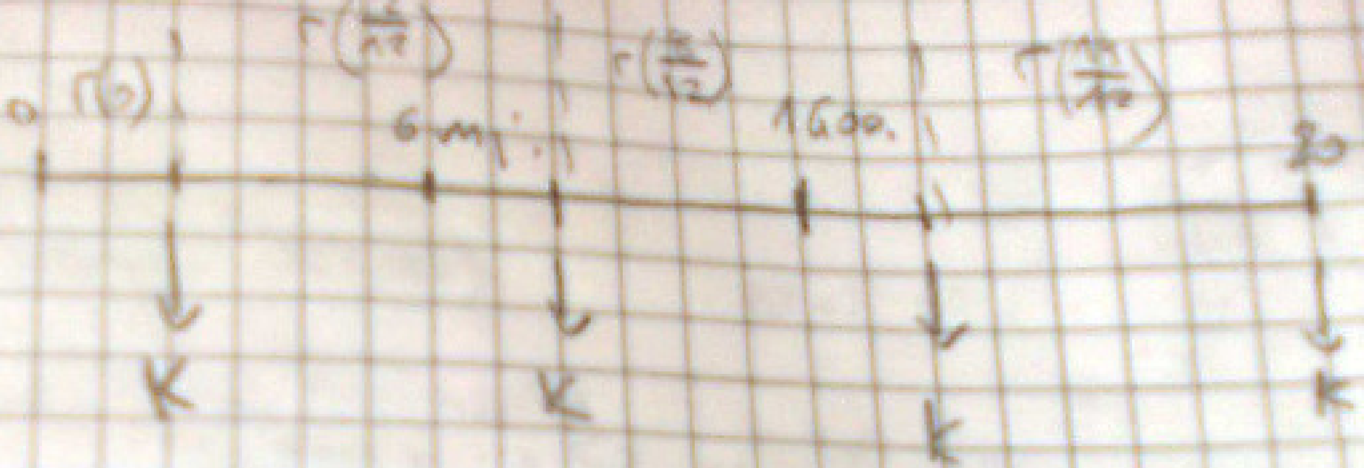
TREAL. PRIMOS > PRIMOS [illegible] $\Rightarrow$ B > [illegible]

5. $T = 20$ mj.

$N = 100$

kup. $r = 6\%$ ~~G.oo.~~

$r(t) = 0.5214 \cdot \frac{\ln(1+2t)}{200}$



$= 3$ (pu.G.oo.!)

$r_1 = r(0) = \sout{6\%}\ 5.25\%$

$r_2 = r\left(\frac{2}{12}\right) = 5.39\%$

$r_3 = r\left(\frac{8}{12}\right) = 5.64\%$

$r_4 = r\left(\frac{14}{12}\right) = 5.85\%$

$$B(0,20) = 3e^{-r_1 \frac{2}{12}} + 3e^{-r_2 \frac{8}{12}} + 3e^{-r_3 \frac{14}{12}} + 103e^{-r_4 \ldots}$$

$$= \underline{102.404}$$