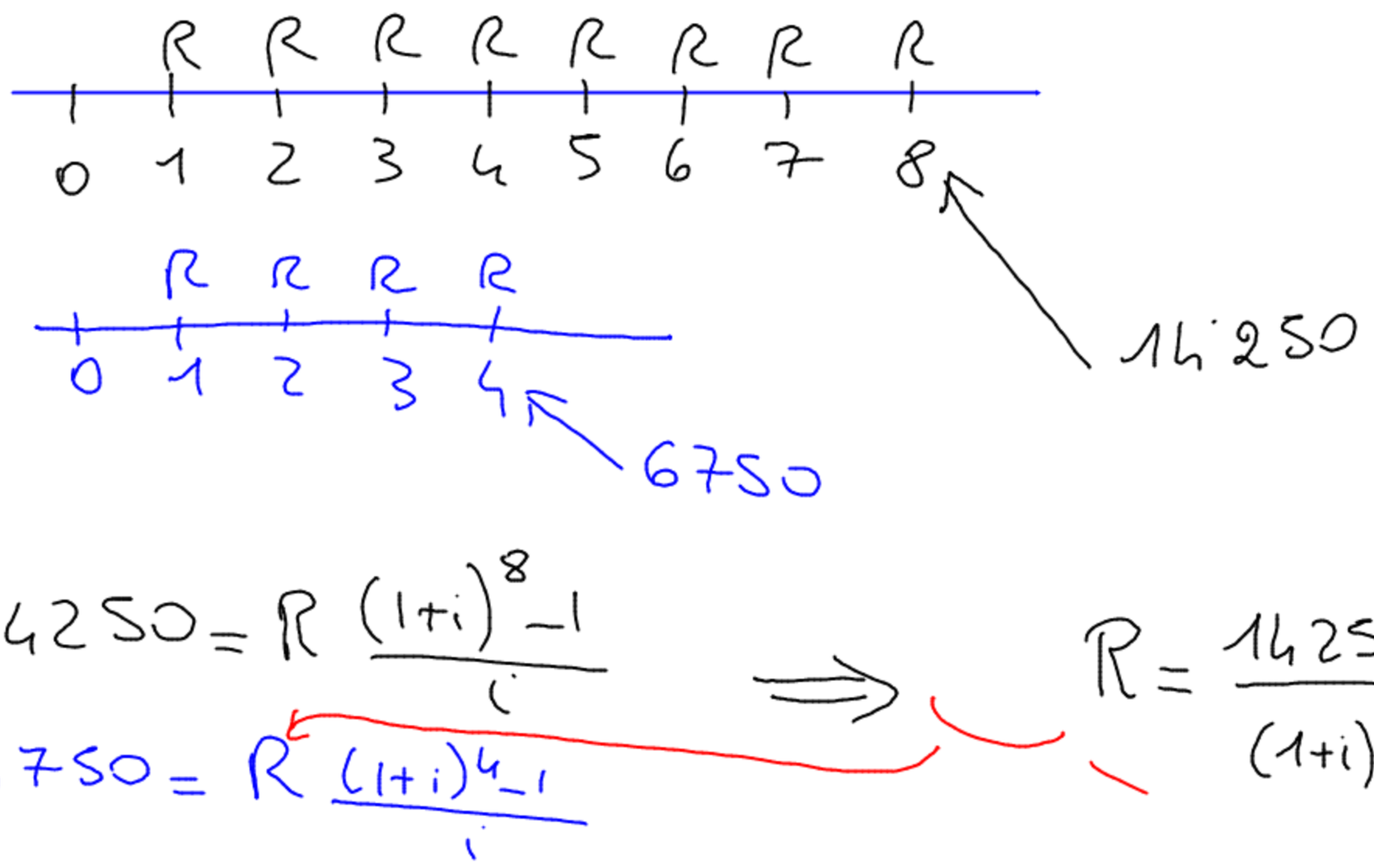
N. 139



$$\begin{cases} 14250 = R\,\dfrac{(1+i)^8-1}{i} \\ 6750 = R\,\dfrac{(1+i)^4-1}{i} \end{cases} \Rightarrow R = \frac{14250\,i}{(1+i)^8-1}$$

$$6750 = \frac{14250\,i}{(1+i)^8-1} \cdot \frac{(1+i)^4-1}{i}$$

$$\frac{(1+i)^4-1}{(1+i)^8-1} = 0{,}4736842$$

Poniamo

$(1+i)^4 = X$

quindi $(1+i)^8 = X^2$

$$\frac{X-1}{X^2-1} = 0{,}4736842$$

$X \neq 1$ $\quad 1+i \neq -1$, $i \neq 0$

$$\frac{X-1}{(X-1)(X+1)} = 0{,}4736842$$

$$\frac{1}{X+1} = 0{,}4736842$$

$$1 = 0{,}4736842\,(X+1)$$

$$1 = 0{,}4736842X + 0{,}4736842$$

$$0{,}4736842X = 0{,}5263158$$

$$X = 1{,}11111158$$

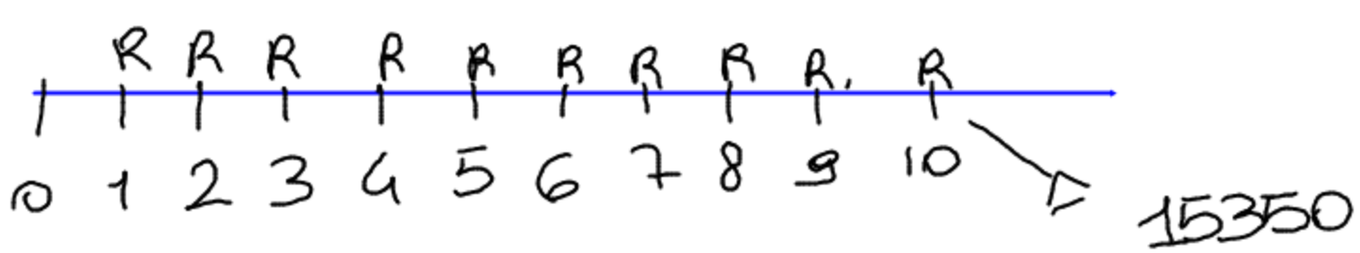
$$\left[(1+i)^4\right]^{1/4} = (1{,}\overline{1})^{1/4}$$

$$1+i = 1{,}02669007$$

$$i = 2{,}669\%$$

$$R = \frac{14250\,i}{(1+i)^8-1} = 1621{,}4306$$

ES. 158



$i = ?$

$R = 1200$

$$\frac{15350}{1200} = \frac{1200}{1200}\,\frac{(1+i)^{10}-1}{i}$$

$$12,7916666\overline{7} = \frac{(1+i)^{10}-1}{i}$$

i = 0,05

i	M
0,05	M_1
x	12,791$\overline{6}$
0,055	M_2

$$(x - 0,05) : (12,791\overline{6} - M_1) = (0,055 - 0,05) : (M_2 - M_1)$$