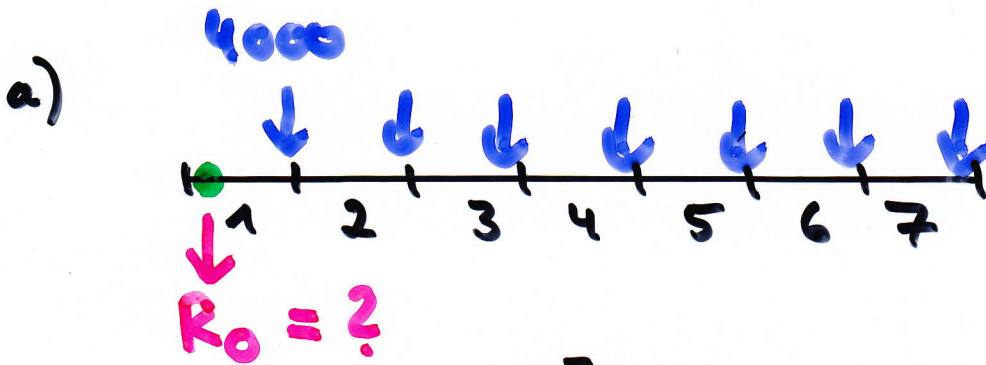
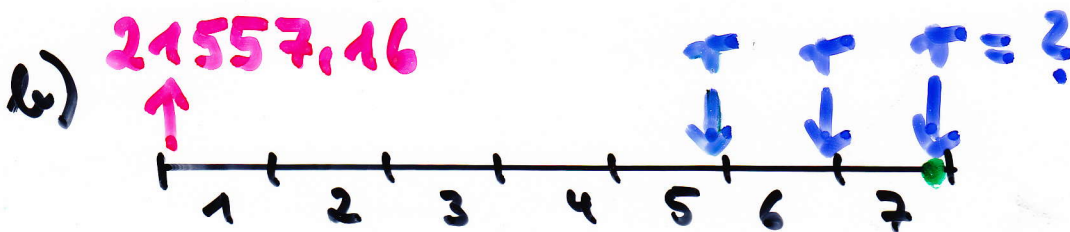


Aufgabe



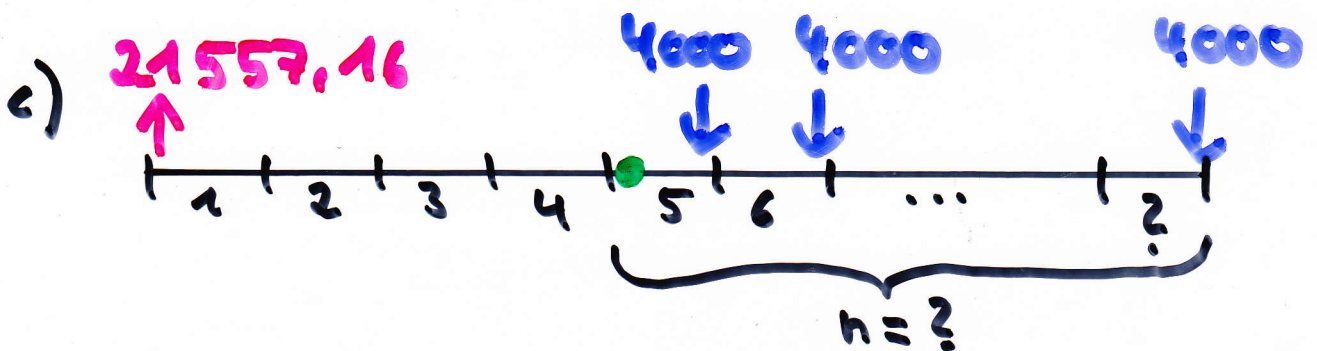
$$R_0 = 4000 \cdot \frac{1,07^7 - 1}{0,07} \cdot \frac{1}{1,07^7} = 21\,557,16$$



Schulden = Rückzahlungen

$$21\,557,16 \cdot 1,07^7 = r \cdot \frac{1,07^3 - 1}{0,07}$$

$$r = 10\,767,39$$



$$1. R_0 = 21\,557,16 \cdot 1,07^4 = 28\,257,04$$

$$n = - \frac{\ln [1 - (28\,257,04 / 4000) \cdot 0,07]}{\ln 1,07}$$

$$n = 10,083$$

$$2. K_{10} = 28\,257,04 \cdot 1,07^{10} - 4000 \cdot \frac{1,07^{10} - 1}{0,07}$$

$$K_{10} = 320,08$$

$$K_{10} \cdot 1,07 = 342,48$$