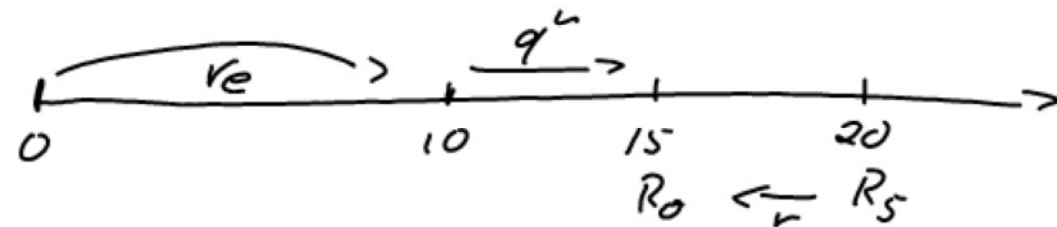


$$3) \quad n_1 = 10 \quad ; \quad m = 3 \text{ (vorschüssig)} \quad ; \quad i = 0,05$$



$$v_e = 500 \cdot \left( 3 + \frac{0,05 \cdot (3+1)}{4} \right) = 1.550,-$$

$$R_{10} = 1.550 \cdot \frac{1,05^{10} - 1}{1,05 - 1} = 19.495,73$$

$$R_{15} = 19.495,73 \cdot 1,05^5 = 24.882,05 = R_0$$

$$R_{20} = 24.882,05 \cdot 1,05^5 = \underline{\underline{31.756,50}}$$

$$31.756,5 = r \cdot \frac{1,05^5 - 1}{0,05} \Rightarrow r = 5.747,13$$