

## Task 5

Friday, September 13, 2024 12:43 PM

$$a) \quad P \left( 1 + \frac{r}{m} \right)^{m \cdot t}$$

The rate of return,

$$R_oR = \frac{A - P}{P} = \frac{A}{P} - 1$$

$$\text{where } A = P \left( 1 + \frac{r}{m} \right)^n$$

$$R_oR = \left( 1 + \frac{r}{m} \right)^n - 1$$

$$R_oR_{\text{semi}} = \left( 1 + \frac{0,05}{2} \right)^2 - 1 = \underline{\underline{5,063\%}}$$

$$b) \quad R_oR_{\text{mehltlg}} = 1,050625 = \left( 1 + \frac{r_m}{12} \right)^{12}$$

$$12 \left( \sqrt[12]{1,050625} - 1 \right) = r_m = \underline{\underline{4,944\%}}$$

$$c) \quad 0,050625 = e^r - 1$$

$$\ln(1,050625) = \underline{\underline{4,938\%}}$$

