

Exercise 1

1) $C_m = C_0 + I$

$C_m = 20\,000 + (20\,000 \times 1,8\% \times \frac{12}{4}) = 20\,120\text{€}$

2) $r_A = r_f \times 4 = 0,8\%$

$15\,000 = C_0 + (C_0 \times 0,8\% \times \frac{12}{4}) \Rightarrow C_0 = \frac{15\,000}{1 + 0,8\% \times \frac{12}{4}} \Rightarrow C_0 = 14\,900\text{€}$

3) $125 = 25\,000 \times 3\% \times \frac{n}{360}$

$\Rightarrow n = \frac{125 \times 360}{25\,000 \times 3\%} = 60\text{d}$

Exercise 2

1) $C_m = 2000 \times (1,02)^{\frac{219}{365}} = 2029,40$

2) $C_0 = 2000$

3) $C_m = 2029,40 \times (1,02) = 2070\text{€}$

Exercise 3

1) $21384,72 = (500\,000 \times \frac{100}{T} \times \frac{346}{360}) \Rightarrow 4,45\%$

2) $r_m = (1,0445)^{\frac{112}{360}} - 1 = 0,36348\%$

3) a) $C_{m1} = 521384,72 + (521384,72 \times 4,5\% \times \frac{12}{4}) = 529225,49$
 $C_{m2} = 529225,49 + (529225,49 \times 4,5\% \times \frac{12}{4}) = 537035,22$

b) $C_m = 521384,72 \times (1,045)^{1,25} = 550275\text{€}$

Exercise 4

Soll =

100 000

0

1-10 - 1000

99 000

0

1-10 - 15 000

84 000

1

15-10 + 3 000

87 000

1

31-10

Σ 71 € 25

I = 36,25

I = 35

✓
✓
✓
✓