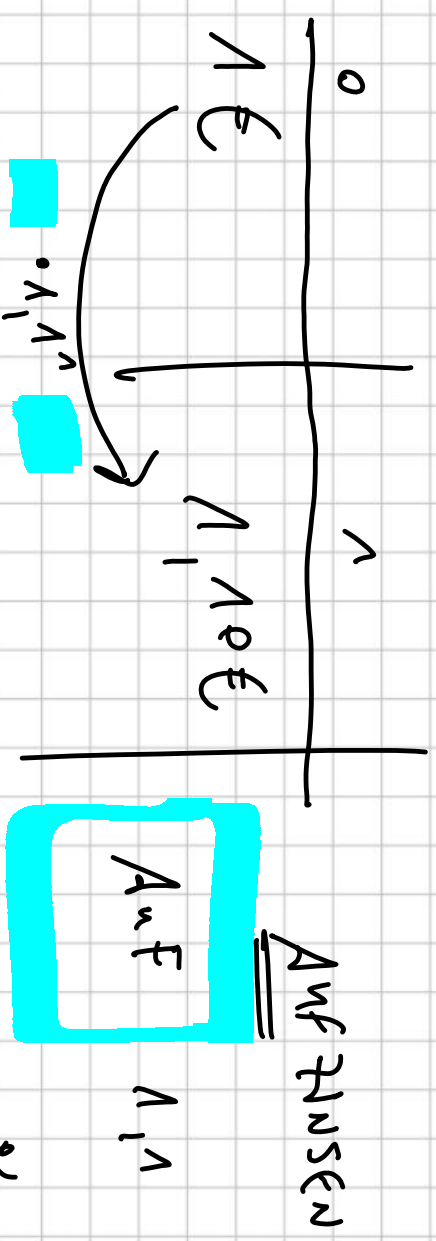
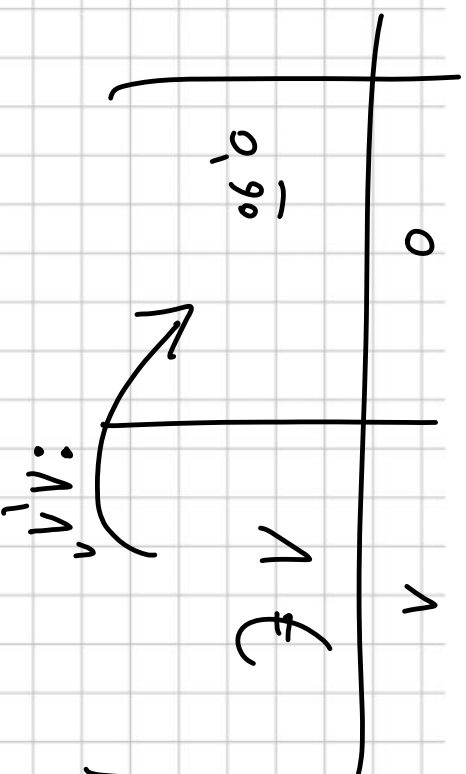




$$i = 10\%$$



$$i = 10\%$$



ABZinsen
AK-F

Kapitalwert					
0	1	2	3	4	5
0	20	50	70	40	30
-100					
$1,1$ $i = 10\%$ $C_0 = 58,44$					
$18,18 \leftarrow : 1,1^1$ $41,32 \leftarrow : 1,1^2 = 0,11^{-2} = 0,826446$ $52,59 \leftarrow : 1,1^3 = 0,751315$ $27,32 \leftarrow : 1,1^4$ $18,63 \leftarrow : 1,1^5 = 0,11^{-5} = 0,620921$					
AKF					
$a^{-n} = \frac{1}{a^{+n}}$					

END NEAR

$\lambda_i = 10\%$

	0	1	2	3	4	S
0						
1						
2						
3						
4						
S						

-100

20

50

70

40

30

$$\cdot \lambda_1 \lambda^T = \lambda_1^T G M$$

$$\cdot \lambda_1 \lambda^3 = \lambda_1^3 3 1$$

$$\cdot \lambda_1^2$$

$$\cdot \lambda_1^1$$

$$\cdot \lambda_1^3$$

44

84,7

66,55

29,282

-161,051

$$C_5 = 93,481$$

Prüfung

$$C_n = C_0 \cdot (1+i)^n \quad \text{Zinsseszinsformel}$$

$\underbrace{S_{8,04}}$

$\underbrace{\underbrace{0,11}_{1,11}}_{1,11^5}$

$1,11^5 = 1,610510 = \text{Auf}(5,10\%)$

$\underbrace{93,48}$

Annuität

$$A = C_0 \cdot q^n \cdot \frac{i}{q^n - 1}$$

$$= 58,04 \cdot 1,1^5 \cdot \frac{0,1}{1,1^5 - 1}$$

$$= 58,04 \cdot 2,263792$$

= 131,31 ... jedes Jahr aus
Dien invest. entzuehen

$$k_{WF} = 0,263792$$

$$A_0 = \frac{C_0}{B_{WF}} = \frac{58,04}{3,290782}$$

Entziffern der Annuität

Dipl.-Math. Dipl.-Kfm. Daniel Lambert

<https://www.wiwiweb.de>

0	1	2	3	4	5
-100	20	50	70	40	30
	-110	-115,84	-89,25		
	-105,31	-115,31	-115,31		
		-81,15			

$$\cancel{9 + 2 \cdot 3 = 33}$$

$$9 + 2 \cdot 3 = 15$$

$$\begin{array}{r} \boxed{-15,34} \\ -13,34 \end{array} \quad \begin{array}{r} \boxed{-15,34} \\ -14,677 \end{array}$$

$$\boxed{-15,34}$$

0

1.2

$$C_0 = \sum_{t=0}^n \frac{C_t - A_t}{(1+i)^t} = -A_0 + \frac{C_1 - A_1}{1+i} + \frac{C_2 - A_2}{(1+i)^2} + \dots + \frac{C_n - A_n}{(1+i)^n}$$

	2.1.13	31.12.13	31.12.14	31.12.15	31.12.16	31.12.17
E_t	80000	50000	60000	40000	30000	20000
A_t	80000	100000	100000	20000	15000	8000
$E_t - A_t$	-80000	40000	50000	20000	15000	12000

$37.037,04$
: 100
= 370,3704

$42.861,91$
: 1,08² = 14661
: 1,08³ = 91793832

$15.874,64$
: 1,08³ = 11.025,15

8167

$0,857339$

14661

91793832

$11.025,15$

8167

$$A = C_a \cdot f^n \cdot \frac{i}{f^{n-1}} = C_m \cdot \left[\frac{i}{f^{n-1}} \right] = \frac{C_m}{e^{nF}}$$

RVF

$$\boxed{A \cdot V_c} = 93,48 \cdot 0,163798 = \underline{\underline{15,31}}$$

$$= \frac{93,48}{6,11051} = \underline{\underline{15,31}}$$