```
Suffale 2:
 geg: +0= 40°C =>T= 313, 15 K
 a.)
   ges: R (2) für Pt 100
        Geg: A = 3, 9083 · 10-3 1 ; B = -0,5775 · 10-6 12
         R (-8) = 1002 (1+A -8 + B - 82)
         R (40°e) = 115,54 Q
   Ges: R(2) für Keißleiter
      Gog: B = 5000 K; TN = 288, 15 K; RN = 1 D
       R(T) = RN - e 8 · ($ - $,)
       R(313,15K) = 0,45 Q
 C) Gez: Empfindlickleit E des Pt 100
         E = dR(2) = 1000 (A + 282)
         E fir - 2 = 40°e:
         E = 0,38621 2
 d) geg: to,5 = 85
     go: to, 5
          0,5 = (1 - e = )
        (2) e = 1
        (2) - 83 = ln(1) - ln(2) = - ln(2)
        € 2 = 85 = 11,545
```

$$0, 9 = (1 - e^{\frac{-697}{4}})$$

$$e = \frac{-697}{4} = 0, 1 = \frac{1}{40}$$

$$e = \frac{-10}{4} = \ln(1) - \ln(10) = -\ln(10)$$

$$e = \frac{1}{40} =$$

Adjable 4:

a) Gap:
$$g = 1$$
 $\frac{kg}{e} = 1$ $\frac{kg}{dn^3} = 1 \cdot 10^3 \frac{kg}{m^3}$
 $V = 2\frac{m}{s}$; $d = 15 \cdot 10^{-2} m$
 $V = \frac{dV}{dt} = A \cdot \frac{dL}{dt} = A \cdot V = \frac{d^2}{2}\pi \cdot V$
 $M = 9 \cdot V = 9 \cdot \frac{d^2}{4}\pi \cdot V$
 $M = 35.34 \frac{kg}{5}$
 $M = 35.3$

Aufgabe 5:

Geg:
$$G = 12 - 10^{-3} \text{ m}$$
; $f = 25 - 10^{-3} \text{ m}$; $B = 2, 4 \cdot 10^{-3} \text{ m}$

a) Ges: G

b)
$$g = f \cdot \frac{B+1}{B} = 0.15 \text{ m} = \frac{15 \text{ cm}}{3}$$

$$b = f \cdot (\beta + 1) = 0.03 \text{ m} = 3 \text{ cm}$$

B = B = 0,2

$$\mathcal{L} = \underbrace{A_{H} \cdot \dot{I}_{x} \cdot B_{z}}_{\mathcal{U}_{H}} \qquad \boxed{ \boxed{ } d \boxed{ } = \underbrace{\frac{m^{3} \cdot \dot{A} \cdot V_{S}}{A_{S} \cdot V m^{2}}}_{} = m$$

b)
$$R_H = A_H \cdot \frac{B_Z}{d}$$
 $[R_H] = \frac{m^3 \cdot V_S}{A_S \cdot m^2 \cdot m} = \frac{V}{A} = \Omega$

Aufgabe 7: Geg: d=3m ; Ev=2 lx a) Ges: Iv Ev = Iv con d = 1, da senbrecht => Iv = Ev. Lz Iv = 18 d b) ges: by Iv = dov » by = Iv · a (da gleichmissige Alstrallung über gosamten Raumwinkel) dv = 226,19 lm