

wa2 = 119780 tig waz = 239560 Jug Wa = 489.499 5 c) exone who 526.918 K = altes Ergebnis für exstr6 - exstro = he - ha - To (se-sa) + ske cp (To-To) - To (cp lu (50) - Reu (50) + sice cp 1.006 | 243.15 - 526.918) - 243.15 (1.006 · lu (348)) # - Rlu (De)) + Dhe # - $\kappa ca(00) | HDhe$ $R = 0.0287 \frac{hT}{hg.k}$ $285.47 \frac{hJ}{ug} - To(0.778 \frac{hT}{hs.k}) + \frac{(489.449^2 - 200)^2}{2}$ 2025 96.299<u>ú</u>3+ 99780.16 J

Dexxtr = 196079-16]

d)

4) b)
$$u^{2}(hz - h_{3}) = 28W$$

Takelle 1-14
 $hy = h^{2}(8bar) = 263.95 \frac{hT}{ug}$

Drossel iscurthalp

 $h = h1$
 $4b$) $ab = m(u_{2} - u_{1}) - wk$
 $fz = -22^{\circ}C$

Takelle A 140

 $uz = 264.08 \frac{u_{1}}{u_{2}} + uz = 22^{\circ}C$

Takelle A 11

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1 a) in (hours - in hein) = & ans
 hans hein
Aus Tabelle Az
 uf(70°C) = 292.98 € 47
 Hein: naus:
 h + (100°C) = 415.04 mg
Raus = 0.3 9 (419.04 - 292.98)
     = 37.818 & W
5) TKF & Der Drinch im kuhlmautel nimmt
   wicht ab = 7 sez = 0
 T = the T2-T1 = 293, 12 K
d) mauz - mini = Dm. nein + Qx
   M2 = M1 - Din
  Aus Tabelle A-Z
  u1 = 419.04 + 0.005 (2676,1-419,04)
      = 430.33 ug
  U2 = 292,98 + MD + Mein (2626, < -292.98)
 to (mD + mein) · (292.98 + mD + mein (2333.82)
  uein = h + (20°C) Tabelle A-2
= mein = 83.96 k] + 2476549 the both b-35MJ
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e)
$$u_{2}s_{2} - m_{1}s_{1} = \Delta u_{1}s_{1} + \frac{G}{T} + s_{2}z_{2}$$

$$Se_{2} = m_{2}s_{2} - m_{1}s_{1} - \Delta m_{1}s_{2} - \frac{G}{T}$$
 mit $zwisdungebuis$ $mD = 28.775 kg$
 $u_{2} = 5755 kg + 36004g = 9355 kg$
 $u_{3} = 5755 kg + 36004g = 9355 kg$
 $u_{4} = 5755 kg$
 $s_{2} = 0.9549 + \frac{28.775}{9355 kg} (7.7553-0.9549)$
 $s_{3} = 0.976 \frac{M_{3}}{4S-K}$

Tabelle $A - 2$
 $s_{1} = 1.3069 + \frac{28.77549}{5755 kg} (7.3549 - 1.3069)$
 $s_{1} = 1.337 \frac{M_{3}}{4S-K}$

& $s_{2} = 0.1966 \frac{M_{3}}{4g-K}$
 $s_{3} = 0.1966 \frac{M_{3}}{4g-K}$
 $s_{4} = 0.1966 \frac{M_{3}}{4g-K}$
 $s_{2} = 0.1966 \frac{M_{3}}{4g-K}$
 $s_{3} = 0.1966 \frac{M_{3}}{4g-K}$

+ 35000 ghJ = 487.69 kg hJ

30) parkments

 $p_1 = p_0 + \frac{32 \log_{10} 9.81}{(0.1)^2 \cdot 11} + \frac{8.1 \cdot 9.81}{(0.1)^2 \cdot 11}$

P1= 109992 38 Par MOCR3.6 Par = 101 bar

M1:

PV= MRT

R = 0,16628

p. 0.00314 m3 = m. 0.16628 . 50 773.15

 $\frac{p.0.00314}{128.56} = m$

m = 0.0000268 kg = 0.0269 g

b) mges 1 = 0,1 kg meis 1 = 0.06 kg meis 2 > 0.1 kg