() Entropietimes:

Envyrehilmer

Oztolie-haltai

11 alto fleres System

M2.42 - M2.41 = (mein. hein + à-w

e) Entropi-brens hilkoften

DS = M2.52 - M2.57 = & Dm. s: + & 7 + Sers

Auguste 2 P 7 on Steved Of 0,1316 30°C 2 3 9 431,314 011314 T (K) >> S (Jg.k)



$$\frac{T_{6}}{T_{5}} = \left(\frac{p_{6}}{p_{5}}\right)^{\frac{1}{1}\cdot q_{5}} \rightarrow T_{6} = T_{5} \left(\frac{p_{6}}{p_{5}}\right)^{\frac{1}{7}\cdot q_{6}}$$

$$-9 T_{6} = T_{6} \left(\frac{p_{6}}{p_{5}}\right)^{\frac{1}{7}\cdot q_{6}}$$

$$-9 T_{6} = T_{6}$$

() Brogietian 2

d) Export = To Sera Entropietilus

Aufgabe 3

E)

Tystand	一	V
1	200°د	3,192
2		

$$P-V=MRT$$

$$R = \frac{R}{M} = \frac{89314 \text{ kmol.k}}{50 \text{ kmol.}} = \frac{166,29 \text{ lank}}{13.6}$$

$$M = \frac{PV}{P^{-1}}$$

Tustund MEW
$$2 + 0.114$$

$$M_6 w = 0.116$$

MGW= 3114

Energie bium 2:

X 613 2 7 0 Eis sulvilal Lei

De vieles alles Eis gechonoten ist, muss die Temperater aben (und somit. → Tg2 = o°C anchunter) ooc sent

Ideale Gasplaiding.

$$\frac{T^2}{T_1} = \left(\frac{p_2}{p_1}\right)^{\frac{n-1}{2}} = \frac{p_1}{p_1}$$

$$h=k=\frac{C_{r}}{C_{v}}=\frac{4117}{200}$$

$$p_{1}=p_{1}\left(\frac{T_{2}}{T_{1}}\right)^{\frac{1}{h-1}}=1.5b_{1}\left(\frac{277,15k}{500+277,15k}\right)^{\frac{41.81}{3.81}}$$

$$=0.1407b_{1}$$

I deales Gus,

J)

$$\phi = d\epsilon + x (d^3 - \phi \epsilon)$$

Geg. Wissenes System:

p (mbr)

| Tripel punkt |
| Solver einzelnen |
| Tripel punkt |
| Solver einzelnen |

b) Kuhl kvers land

Trus found	P			
1	Pa	`)	h, eq) L Q E
(2)	p1 -164		½= ♥1	٤
3	862	2		
4	8 har		X4=0	ha

→ T(°L)

Ti = - 10°C (our Dergramm)

* * * *

6)

$$h_{4} (3600, x_{4} = 0) = \frac{13445 \frac{1}{19}}{19} = h_{1}$$

$$h_{2} (-16^{\circ}c_{1} \times 2 = 1) = \frac{26945 \frac{1}{19}}{19}$$

$$h_{3} (-16^{\circ}c_{1} \times 2 = 1) = \frac{240115 \frac{1}{19}}{19}$$

$$T_{4} = -10^{\circ}c_{1} - 6^{\circ}c_{2} = -16^{\circ}c_{3}$$

Stationer Fliesproces

d) Die luft würde von Gas zu Festikte worden und es bithet sich Eis