(a)
$$q_{00}$$
:

$$G_{00} = G_{1} - G_{00}$$

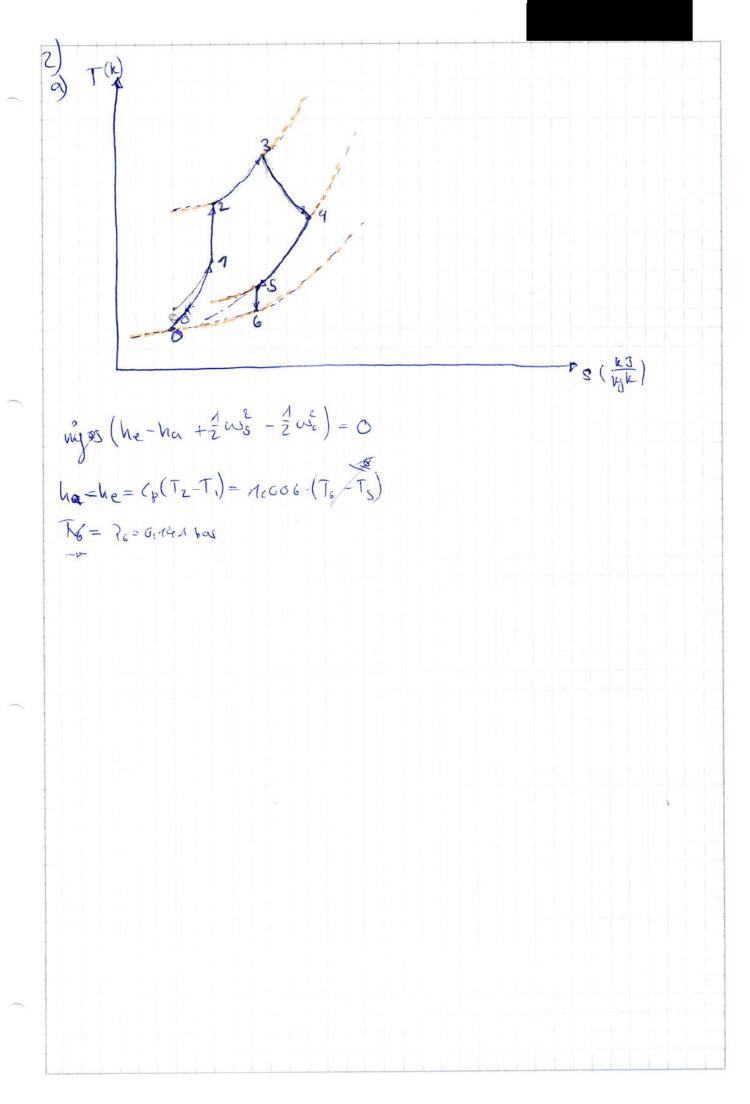
$$G_{00} = G_{1} - G_{1} - G_{1}$$

$$G_{00} = G_{1} - G_{1} - G_{1}$$

$$G_{00} = G_{00}$$

$$G_$$





0)
$$\Delta U = \frac{1}{2} Q_{12} = -W_{12}$$
 $W_{12} = P_{1}(V_{2} - V_{1}) = A4 - 140 \text{ kpa}(3,003.19 \text{ m}^{3} - 0,001.1 \text{ m}^{3}) = 284,2 \text{ J}$
 $V_{2} = \frac{\text{m.l.} T_{2}}{P} = \frac{0,6054 \cdot 8,314 \cdot 273,455}{139,98 \cdot 50} = 1,111 \text{ L}$
 $= \frac{139,98 \cdot 50}{139,4 \cdot 12} = 1,111 \text{ L}$
 $= \frac{1}{2} = \Delta U + W_{12}$
 $= \frac{1}{2} = \frac$

D)
$$Y_{e,5} = \frac{m_{e,5}}{m_{e,4}}$$
 $M_{t+1} = 0, AM_{t}$
 $\Delta U_{t+1} = 0$
 $\Delta U_{t} = \Delta U_{2}$
 $\Delta U_{t} = 3.46 \times 98 + U_{t+1} = U_{2} + y_{1} + U_{t+1} + U$

