

Aufgabe 18

$$\eta = \frac{-w_k}{Q_{12}} = \left(1 - \frac{T_2}{T_1}\right)$$

$$\frac{w_k}{w_k(V_2)} = - \left(1 - \frac{T_2}{T_1}\right) Q_{12} = p_1 V_1 \ln \frac{V_1}{V_2} \left[1 - \left(\frac{V_2}{V_1}\right)^{\gamma-1}\right]$$