



② a) $\dot{T} = -k_1 T + k_2 P$
Energie balance

b) Masse balance

c) $\dot{T} = -k_1 T + 10000 t_2$ $k_1 = 0,001$

$T = \frac{1}{a} = T = \frac{1}{k_1} \Rightarrow k_1 = \frac{1}{T} = \frac{1}{10000} = -0,001$

$k = 100 \quad k = \frac{b}{a} \quad b = -k a = -0,001 \cdot 100 = -0,1$