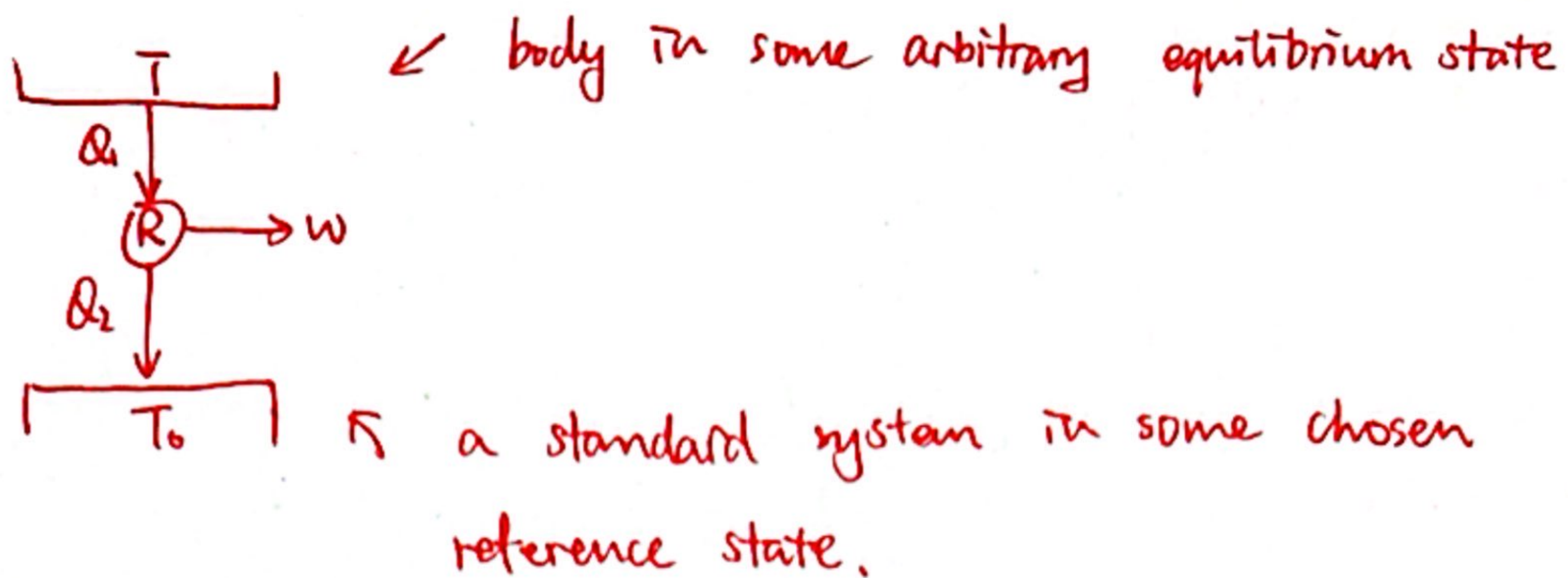


The Definition of Absolute Temperature



Define $T = \frac{Q_1}{Q_2} T_0$

Extend the reference state to a general state. $\frac{Q_1}{Q_2} = \frac{T_1}{T_2}$

Hot Heat is More Valuable than Cold Heat.

Heat energy delivered by a system at high temperature is more valuable [can be used to drive a greater variety of processes] than the same amount of heat at low temperature.