

The problems **Helium engine**, **Thermoelectric engine**, and **Lenoir cycle** all contain a lot of information about the mechanism of the engine. This is irrelevant. The efficiency of a quasistatic engine depends only upon the (absolute) temperatures of the low- and high-temperature heat baths:

$$\text{efficiency} = 1 - \frac{T_L}{T_H}.$$

The most common error in working these problems is the failure to convert temperatures from the Celsius scale to the Kelvin scale.