
EXAMPLE: Air-standard Brayton cycle

An **air-standard** Brayton cycle operates under the following conditions: compressor inlet: 100 kPa, 300 K; turbine inlet, 1 MPa, 1300 K.

- (a) Find the heat transfer rate and power (per unit mass flow rate) for each device in the cycle.
- (b) Find the cycle efficiency.
- (c) What is the pressure ratio for the cycle?



