

10.B.1

Consider a simple Brayton cycle. 1: A real cycle has a lower temperature at the outlet of the compressor than an ideal cycle 2: A real cycle has a lower temperature at the outlet of the turbine than an ideal cycle

Answer: 1 and 2 are not true

Explanation: Both statements are not true as can be seen in the T_s - diagram in the picture. The real cycle has a higher temperature at the compressor outlet and a higher temperature at the turbine outlet. Note that this is a T_s - diagram of a closed Brayton cycle.