

ME 24-221
Thermodynamics I

Quiz No: 7
December 1, 2000
Instructor: J. Murthy
15 minutes
Open textbook, closed notes

Air enters a compressor at a pressure of 500 kPa and 300 K, and exits at a pressure of 5.873 MPa. If the exit temperature of the actual compressor is 660 K, find the isentropic efficiency of the compressor.

Assume that air has variable specific heats