

ME 24-221
Thermodynamics I

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

A piston-cylinder assembly contains a gas at a pressure at 200 kPa. If the area of cross-section of the piston is 0.01 m^2 and the mass of the piston is 50 kg, what external atmospheric pressure P_0 is required to just keep the piston from resting on the stops?

