

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF AEROSPACE AND MECHANICAL ENGINEERING

Professor H.M. Atassi
113 Hessay Center
Tel: 631-5736
Email: atassi@nd.edu

AME-60633
Introduction to Acoustics and Noise

Homework 1

- I. If an ideal gas is compressed adiabatically from a state in which the density is ρ_0 and the temperature is T_0 to a state in which the density is ρ and the temperature is T , find T as a function of ρ .
- II. Problems 1.2.1, 1.5.1, 1.5.3, 1.6.2, 1.7.5, 1.8.2, 1.9.3.