

AOE 2104 Problem Sheet 1

Due 9 September, 2003

Retrieve and read Sections 1, 2, and 3 from the web site <www.aoe.vt.edu/~lutze/AOE2104>

1. Write down ***your*** definition of Engineering.
2. Give an example of how your definition applies to the general field of Aerospace Engineering.
3. The F/A 18 aircraft lands at approximately 160 kts. Determine the landing speed in
 - a) miles per hour
 - b) ft/sec
 - c) meters /sec
4. Determine the pressure, density, and temperature in a standard atmosphere at an altitude of 23,000 ft. (in customary English units and in the corresponding altitude in meters, and SI units)
5. An aircraft is flying at 500 kts in standard sea-level conditions. Determine its Mach number.