

Study Questions



1. Assuming an aircraft is flying in a standard atmosphere, it is in level flight and its altimeter indicates 10,000 m, what is the atmospheric pressure at its altitude? What is the air density at its altitude?
2. Under the above conditions, the total pressure and total air temperature are measured to be 4.24×10^4 Pa and 263.281 K respectively. Find the aircraft's Mach number, true airspeed and calibrated airspeed.

