Homework 1: Beckwith Probs. 2.4, 2.5, 2.8, 2.9

2.4. Calculate the force (lbf) necessary to accelerate a weight of 0.5 lbf at 5 ft/s².

magnitude of this force in units of lbf?

Determine the force (N) necessary to accelerate a mass of 200 g at 25 cm/s². What is the

- 2.8. Determine the factor for converting volume flow rate in cm³/s units to gal/min.
- **2.9.** Express the universal gas constant of 1545 ft · lbf/lbm · mol · °R in SI units.