# Problem Set #3

## Due Friday, October 4 by 5pm to Dickinson 104

*Unless otherwise indicated, all problems come from "Essentials of College Physics"*
*Make sure to clearly state all assumptions you make and to show your work.*

1. *Conceptual Question* 4.14 *(Note: assume that the distance between the rocket and the center of the Earth does not significantly change over the rocket's flight)*
2. Problem 4.7
3. Problem 4.15
4. Problem 4.16
5. Problem 4.43
6. Problem 4.52
7. Problem 4.62

Individual Problem: Problem 4.60