# Problem Set #2

## Due Friday, September 26 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* 3.12
2. Problem 3.16
3. Problem 3.34
4. Problem 3.39
5. Problem 3.41
6. Problem 3.51
7. Problem 3.55 (*Hint: At some point, the following trig identity may prove useful: 2*sin(θ)cos(θ) = sin(2θ)*)

Individual Problem: Problem 3.42