Physics 2011  
Fall 2008  
Homework #5  
Due Wednesday, 8 October at the BEGINNING of class!

For all of these problems, I would like you to state the problem (in your own words is fine), draw any appropriate figures or diagrams, and state your answers in the form of a complete sentence!

(For all of these problems, ignore drag, friction, etc)

1. Show that, for an object on a ramp where the coefficient of static friction is given as $\mu_s$, the maximum angle of the ramp where the object will not slide is $\alpha = \arctan \mu_s$.

Book problems:  Chapter 5: PROBLEMS 35, 54  
Chapter 6: PROBLEMS 19, 25