Panther ID: _____

Worksheet 1

Calculus II

Spring 2013

1. (a) Show that $1+3+5+...+(2n-1)=n^2$.

(b) Find a simple formula for $1^2+3^2+5^2+\ldots+(2n-1)^2$

- 2. This is the equivalent of exercise 53, p. 351 textbook, for the function $y=x^2$. (a) Show that the area under the graph of $y=x^2$ and over the interval [0,b] is $b^3/3$.
- (b) Find a formula for the area under the graph of $y = x^2$ and over the interval [a, b].