**AP Calculus Summer Assignment #4**

**I. Expand and simplify.**

1. $\sum\_{0}^{4}\frac{x^{2}}{2}$ 2. $\sum\_{1}^{3}\frac{1}{x^{3}}$

**II. Simplify.**

3. $\frac{\sqrt{x}}{x}$ 4. $e^{lnx}$

5. ln 1