236 Quiz 1

January	18	201
January	10,	ZU1.

Name	

By printing my name I pledge to uphold the Honor Code.

Work individually. You may use your Notebooks but no loose papers, photocopies, books, calculators, cell phones, or other resources. To get full credit you must clearly and concisely show/explain/justify your work, so please think about what you write and how you write it.

1. Sketch the graph of some function f(x) on [2,5] for which SIMP(6) is an underapproximation for $\int_a^b f(x) dx$. (Note n=6 means that $\frac{6}{2}=3$ parabolas are involved.)

2. Find $\lim_{x\to\infty} \frac{2}{e^{-x}+2}$. (this is from the WebWork assignment)

3. Find $\int_2^4 \frac{e^{2x}}{5 - e^{2x}} dx$. (you need not simplify the number)