Name:
Due:

Worksheet on Higher Order Approximation

Consider the following problems. Construct the approximation to estimate the unknown value.

- 1. Use a cubic approximation to estimate $e^{0.1}$. Use a cubic approximation to compute this. As best you can, what is your estimate for the value?
- 2. Use quadratic approximation to estimate $\cos 35^{\circ}$.
- 3. Use cubic approximate to estimate $\ln 1.5$ using $\ln (x+1)$ as your function centered at a=0 and using b=0.5.