

WeBWork

- ▶ Open WeBWork:
 - ▶ If you're enrolled in the class, go to OnCourse, and click on WeBWork.
 - ▶ Username: Use your Wheaton ID number (that is, your w_____ number, using a lowercase 'w')
 - ▶ Password: It's the same as your username, above.
 - ▶ If you're not yet enrolled, click on WeBWork from the public page for this course

`http://acunix.wheatonma.edu/jsklensk/Calc2_Spring12/calc2.h`

- ▶ Username: guest
 - ▶ Password: guest
- ▶ You will see all currently assigned work listed: Orientation, and WW 1
- ▶ Those who haven't used it before, take a moment or two to explore it.

Maple

1. Let $f(x) = \cos(x^2) - x \sin(x)$
 - (a) Plot $y = f(x)$ on the interval $[-2, 2]$
 - (b) Use Maple to find $f'(x)$.
 - (c) Plot $y = f'(x)$ on the same set of axes as $y = f(x)$.
Does the relationship between the two graphs look correct?

2. Find the maximum and minimum values of

$$h(x) = e^{-2x+1} + x^2$$

on the interval $[-1, 4]$.

3. Open the *Approximation Integration* tutor (**Tools - Tutors - Calculus, Single Variable**)

- (a) Find L_{50} for $\mathcal{I} = \int_0^1 x \sin(x^3) dx$.

- (b) Find a value of n so that L_n and R_n are within 0.01 of each other. How closely does this L_n approximate \mathcal{I} ?