

Thu Sep 1 13:21:50 MDT 2005

/m171.fa05/handouts171/01_activities_830/active01_830

The following activities pertain to sections in our text (click here if you need to know which text we are using for MATH 171). Reference is also made to the current calculus text (click here if you need to know which text we are using for MATH 170-175-275).

1 MG-104-System Concerns

- (a) Saving Maple worksheets
- (b) Passwords
- (c) Browser Annoyances
- (d) Email from Pine
- (e) Forwarding a worksheet via Pine

2 Textbook Sections 1.1 and 1.2

2.1 Links

Here are links to a Maple worksheet which runs through the things we looked at on day one, 8/25/05:

- (a) HTML form for your browser.
- (b) .mw form to execute in a Maple session. This requires Maple 9.5 installed on the computer you are using.

2.2 In-class activities for Thursday, 9/1/05

Put together a Maple worksheet on which you work out the following problems. Separate and number the problems so that they can be unresentfully graded.

- 2.1** Write and execute the Maple commands to compute decimal approximations to the following:

(a) 16^3 (b) $\frac{\sqrt{\pi + \pi^2}}{3}$ (c) $\sqrt{\pi + \pi^{2/3}}$ (d) $e^{\frac{\pi\sqrt{67}}{3}}$ (e) $\pi^{\frac{e\sqrt{5+\pi}}{3}}$

2.2 Write and execute Maple commands to do the following:

- (a) This is an algebra problem. This means that no decimal approximations will appear. Define \mathbf{E} using Einstein's Famous Equation. Then find the value of \mathbf{E} for the case that $\mathbf{m} = 2\pi$ and $\mathbf{c} = 2exy$
- (b) Define the Maple function **swat** which, given a value for \mathbf{x} , returns

$$\frac{x^2 - x - 6}{x^2 - x - 2}$$

Have Maple compute **swat(0)** and a decimal approximation to **swat($\sqrt{3}$)**.