Name: \_\_\_\_\_

Thursday, 13 August 2009

Math 1B: Quiz 12 GSI: Theo Johnson-Freyd

You must always justify your answers. This means: show your work, show it neatly, and when in doubt, use words (and pictures!) to explain your reasoning. No justification = no points.

1. (10 pts) Find a power series representation (centered at 0) of solution to the following initial value problem:

xy'' + y' + y = 0, y(0) = 1, y'(0) = -1