

Math 325: Differential Equations Name: _____

Quiz 1 *Sept. 10, 1997*

Find the general solution of the differential equation $y^{(4)} - y^{(3)} = t$.

Use the Euler method with step size $h = 0.5$ to find an approximate value for $\phi(2)$ where $\phi(t)$ is a solution of the initial value problem $y' = t^3 - y^3$, $y(1) = 2$.