

Math 265, Section E2 - Quiz 1

13 January 2006

Name: _____

DIRECTIONS: Answer the following questions or execute the following commands below. You may NOT use a calculator. You must convince me beyond a reasonable doubt that your answers are correct by showing work and *writing neatly*. There is a question on the back!

1. Find $\frac{dy}{dx}$ if $y = t^3$ and $x = t^2 + 1$, for $0 \leq t \leq 2$.

2. Use your answer in 1 to find the equation of the line tangent to the parametric curve described in the first question at the point $t = 2$. Write your answer in point-slope form.

3. What do you hope to get out of this class? Why? Be honest; saying, "Nothing; I just want to pass," is fine (albeit rather disheartening).