

Math 1A Quiz 5
March 6th, 2008

Name _____ SID _____

1. A particle moves along the curve $y = \sqrt{1 + x^3}$. As it reaches the point $(2, 3)$, the y -coordinate is increasing at a rate of 4 cm/s. How fast is the x -coordinate of the point changing at that instant?

2. Let $f(x) = e^x \cdot (\sin x)^x$. Find $f'(\frac{\pi}{2})$.