

Department of Mathematics and Statistics

Math 102 Semester (142) Quiz 1

Name

ID #

Sec.#08

Q1) For what value of a and b the integral given below is maximum?

$$\int_a^b (x - x^3) dx$$

Q2) Find $\frac{dy}{dx}$ if $y = x \int_2^{x^3} \cos(t^2 + 1) dt$