

Department of Mathematics and Statistics

Math 102 Semester (141) Quiz 2

Name

ID #

Sec.#06

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Q1) Find area of the region between x-axis and graph of  $f(x) = x^3 - x^2 - 2x$ ,  $-1 \leq x \leq 2$ . (3)

Q2) Evaluate the integral  $\int \frac{e^{\sin^{-1} x} dx}{\sqrt{1-x^2}}$  (3)

Q3) Find  $\frac{dy}{dx}$  where  $y = \int_0^{\sin x} \frac{dt}{\sqrt{1-t^2}}$  (4)