King Fahd University of Petroleum and Minerals

Department of Mathematics and Statistics   **Spring Semester (Term 172)**

Quiz 3   MATH 102   Dr. Taleb Alkurdi

Name_____   ID_____   Section Number_____

ESSAY. Write your answer in the space provided.

Evaluate the improper integral or state that it is divergent.

1) $\displaystyle\int_{0}^{\infty} \frac{dx}{(25 + x)\sqrt{x}}$

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Find the length of the curve.

2) $y = (4 - x^{2/3})^{3/2}$ from x = 1 to x = 8

1) $-\dfrac{\pi}{9}$

2) 9