

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 162) Math 102 Quiz # 5

Name: _____ I.D. # _____ Sr. # _____

1. Find the length of the curve $y = \sqrt{x-x^2} + \sin^{-1} \sqrt{x}$.
2. Find the area of the resulting surface if $y = \frac{x^2}{4} - \frac{\ln x}{2}$, $1 \leq x \leq 2$ is rotated about the y-axis.