

King Fahd University of Petroleum & Minerals

Department of Mathematics and Statistics

Math 102 , Quiz # 4, Semester 191

Name:

serial #

Student ID#:

Q. 1 Find the exact length of curve $y = \ln(\cos x)$, $0 \leq x \leq \pi/3$ (5 pts.)

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Q. 2 Find the exact area of the surface obtained by rotating the curve about the x-axis. $x = 1 + 2y^2$, $1 \leq y \leq 2$ (5 pts.)