

King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
Math 102-10, Quiz #3, Semester 152

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Name:

Student ID#:

SR:

Q1) Set up an integral, but do not evaluate, that represent the area of the region bounded by the curve of $x = y^2 + 4y$ and the line $x + y = 0$.

Q2) Set up an integral, but do not evaluate, that represent the volume of the solid whose base is the region enclosed by $y = \ln x$, $y = 1$, $x = 5$. The cross-sections perpendicular to the x –axis are semicircles.