

King Fahd University of Petroleum and Minerals

Department of Math & Stat

Math 102.26 Quiz I Term 082

Name: _____ ID#: _____

Show all your work in every problem.

1. Find the area of the region bounded by the graphs of the equations $2y^2 = x + 4$ and $x = y^2$.

2. The region bounded by the graphs of the equation $x^2 = y - 2$ and $2y - x - 2 = 0$ and by the vertical lines $x = 0$ and $x = 1$ is revolved about the x -axis. Set up the integral for the volume of the resulting solid. Do not solve the integral.

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1. Solve: $\int_0^2 \frac{e^{3/x}}{x^2} dx.$

2. Solve: $\int_0^1 \frac{e^{2x}}{\sqrt{1 - e^{4x}}}.$