

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by the curves $y = e^x$, $y = 0$, $x = 0$ and $x = 1$ about Y-axis.

Exercise 2 (5 points) Evaluate $\int (\sin x)^7 (\cot x)^4 dx$

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \ln x$, $y = 0$, $x = 1$ and $x = 2$ about Y-axis.

Exercise 2 (5 points) Evaluate $\int (\cos x)^7 (\tan x)^4 dx$

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \sin x$, $y = 0$, $x = 0$ and $x = \frac{\pi}{2}$ about Y-axis.

Exercise 2 (5 points) Evaluate $\int (\tan x)^3 (\sec x)^3 dx$

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \cos x$, $y = 0$, $x = 0$ and $x = \pi$ about Y-axis.

Exercise 2 (5 points) Evaluate $\int (\cot x)^3 (\csc x)^3 dx$