KFUPM – Department of Mathematics and Statistics – Term 161 MATH 102 QUIZ # 3 Code 1 (Duration = 20 minutes)

NAME:______ ID:______ Section: _____

ercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by the cur	rve
$=e^x$, $y=0$, $x=0$ and $x=1$ about Y-axis.	
ercise 2 (5 points) Evaluate $\int (\sin x)^7 (\cot x)^4 dx$	_

KFUPM – Department of Mathematics and Statistics – Term 161 MATH 102 QUIZ # 3 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points) Find the volution $y = Lnx$, $y = 0$, $x = 1$ and $x = 0$	ume of the solid obtained by rotating the 2 about Y-axis.	e region enclosed by the curve

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

KFUPM – Department of Mathematics and Statistics – Term 161 MATH 102 QUIZ # 3 Code 3 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points) Find the volume	of the solid obtained by rotating the	e region enclosed by the curve
$y = \sin x, y = 0, x = 0 \text{ and } x = \frac{\pi}{2}$	- about Y-axis.	
Exercise 2 (5 points) Evaluate $\int (\tan x)^{-1}$	$(x)^3(\sec x)^3dx$	

KFUPM – Department of Mathematics and Statistics – Term 161 MATH 102 QUIZ # 3 Code 4 (Duration = 20 minutes)

NAME:______ID:______Section:_____

xercise 1 (5 points) Find the volume of the solid obtained by rotating the region enclosed by to $y = \cos x$, $y = 0$, $x = 0$ and $x = \pi$ about Y-axis.	the curve
$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}$	
xercise 2 (5 points) Evaluate $\int (\cot x)^3 (\csc x)^3 dx$	