KFUPM – Department of Mathematics and Statistics – Term 122 $\bf MATH~102$

QUIZ # 2 Code 1 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Use cylindrical shells to find the volun	•	
enclosed by the curves $y = x^2$, $y = 2$	2 and $x = 0$ about the line $y = 2$.	

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^2$, y = 2 and x = 0 about the line y = -1.

KFUPM – Department of Mathematics and Statistics – Term 122 **MATH 102**

QUIZ # 2 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Find the volume of the solid obtained b	by rotating the region enclosed by	the curves $y = x^3$ and $y = x^2$
about the $x - axis$.		

Exercise 2 (5 points)
Use cylindrical shells to find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^3$ and $y = x^2$ about the line x = -2.