## King Fahd University of Petroleum and Minerals Department of Mathematical Science Math 102(01) Term 052 Quizt#3 ID#:\_\_\_\_\_

Name: \_

**<u>Q1.</u>** Use cylindrical shells to find the volume of the solid generated when the region R under the curve

 $y = x^3$  over the intervals [0, 2] is revolved about the line y = -2.