

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 131) Math 102.10 Quiz # 2

Name: _____ I.D. # _____ Sr. # _____

Consider the region bounded by $y = x^2$, $y = 0$, and $x = 1$.

1. Using the disk/washer method, find the volume resulting from revolving the region about the line $x = 2$.
2. Using the cylindrical shell method, find the volume resulting from revolving the region about the x -axis.

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 131) Math 102.12 Quiz # 2

Name: _____ I.D. # _____ Sr. # _____

Consider the region bounded by $y = \sqrt{x}$, $x = 0$, and $y = 2$.

1. Using the disk/washer method, find the volume resulting from revolving the region about the line $y = 3$.
2. Using the cylindrical shell method, find the volume resulting from revolving the region about the y -axis.