## King Fahd University for Petroleum and Minerals

Department of Mathematics & Statistics

Term 131

Math 102 (09)

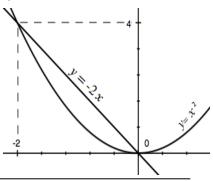
Quiz#2 (5.6, 6.1, & 6.2)

Family Name:

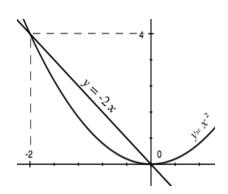
S.r#

Q1. Use the given graphs to **Set up - Don't Integrate -** the integration that represents;

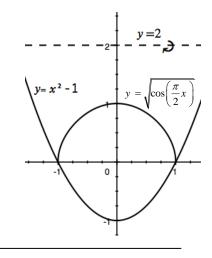
i. The area of the shaded region, (Integrate with respect to x).



ii. The area of the shaded region, (Integrate with respect to y).



iii. The volume generated by rotating the shaded region about y = 2.



iv. The volume generated by rotating the shaded region about y = 4.

