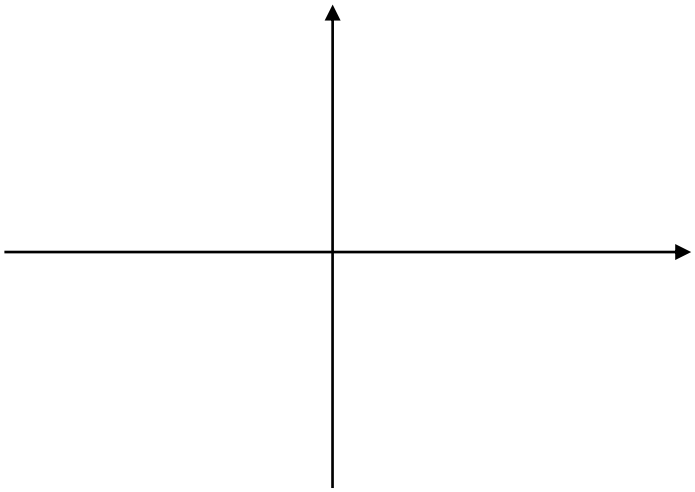
King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
Math 102 (111), Quiz # 4 (6.2)

Family name: Sr. #

Q1) Set up -**Don't evaluate -** an integral for the volume of the solid obtained by rotating the region bounded by $x = y^3, y = x^2$ about $x = -2$. (Write your final answer in the box)

You may use these steps:

1. Sketch the curves & the axis of rotation.
2. Find Intersection point(s).
3. Radiuses Eqn. {Outer radius (R) and Inner radius (r)}.
4. Limits of integration {a=? & b=?}.



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