Math 102		Name:
Quiz#3 (6.2)	10	Serial No.:

1. The region bounded by the parabolas  $y^2 = 2x$  and  $y = 4x^2$  is rotating about an axis, find the **volume** of the resulted solid if the axis of rotation is the line

b.  $x = \pi$ .

2. The base of a solid is a region which is bounded by the curves = 4x,  $y = \frac{1}{x}$  and y = 1. If the cross-sections of the solid perpendicular to the y-axis are squares, find the volume of the solid.

Math 102		Name:
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1. The region bounded by the parabolas  $y^2 = 4x$  and  $y = 2x^2$  is rotating about an axis, find the **volume** of the resulted solid if the axis of rotation is the line

b. y = e.

2. The base of a solid is a region which is bounded by the curves = 4x,  $y = \frac{1}{x}$  and y = 1. If the cross-sections of the solid perpendicular to the *y*-axis are semi-circles with diameters running across the base of the solid, find the volume of the solid.