

Date: 11/21/13.

Instructor: Cody Clifton.

Name: _____

This 10-point quiz will test you on using integration to find the area between curves and the volume of solids. Read carefully and always show your work. You have 15 minutes... good luck!

- (1) Find the area of the region enclosed by the curves $x = 1 - y^2$ and $x = y^2 - 1$.

(Hint: first sketch a graph of the region, then decide whether to integrate with respect to x or y .)

- (2) The region enclosed by the curves $y = 1/x$, $x = 1$, $x = 2$, and $y = 0$ is rotated about the x -axis. Find the volume of the resulting solid of revolution.