MATH 107H Quiz 4

Name:_____ Score:_____

Instructions: You must show supporting work to receive full and partial credits. No text book, notes, formula sheets allowed.

1(5pts) Use the slice (cross section) method to find the volume of the solid which lies between planes perpendicular to the x-axis at $x = -1$ and $x = 1$. The cross-sections perpendicular to the axis are circular disks whose diameters run from the parabola $y = x^2$ to the parabola $y = 2 - x^2$.

2(5pts) Use the shell method to find the volume of the solid generated by revolving the region about the x-axis that is bounded by these curves: $y = \sqrt{x}$, $y = x - 2$, and $y = 0$. (Sketch the region, and the solid.)

(*... The End*)