MATH **125** Quiz **Oct. 23** **Name:**

No books, notes or graphing calculators. Turn off your cell phones. Good luck!

1. Consider the region in the first quadrant bounded by the curves $y = 2(x-1)^2$, $y = x^2 - 2x + 5$ and the y-axis.

(2 pt) a. Sketch the region.

(8 pt) b. Find the volume of the solid of revolution obtained by rotating the region around the y-axis. State clearly which method you use: shells or washers. Sketch a typical shell or washer.