QUIZ♯2   Math102-sec14.

Net Time Allowed: 20 minutes

Name: **ID ♯ :**   **Serial ♯:**

Exercise1:(04 points)

Evaluate the integral: $\int \dfrac{dx}{3 + (x - 1)^2}$

Exercise2:(06 points)

Using the method of cylindrical shells, **set up but do not evaluate,** an integral for the volume of the solid obtained by rotating the region bounded by the curves $x = -y^2 + 2y$ and $x + y = 0$ about the line $y = -5$. (**You must sketch a region and a typical rectangle !**)