

Name:.....Serial#:.....Sec #:.....

Q.1: Find volume of the solid obtained by rotating the region bounded by $y = x - x^2$ and $y = 0$ about the line $x = 2$.

Q.2: Find average value of the function $f(x) = \frac{5}{x \ln x}$ on the interval $[e, e^5]$

Q.3: Evaluate the integral $\int_0^1 \cos^{-1} x dx$