Math102 Term172
Sec 38   Quiz 3

Name	ID	Sr

Q1)(5points) Use the method of cylindrical shell to find the volume of the solid obtained by rotating the region bounded by the curves
$y = \cos(\frac{\pi}{2} x)$, $y = 0$, $0 \le x \le 1$ about the y −axis

Q2)(5points) If the average value of the function $f(x) = 6x^2 - 2x + 6$ on the interval $[a, 0]$ is equal to 7. Then find all such numbers a

Q3) (5points) Find $\int (x \, lnx)^2 \, dx$