September 19,2012

QUIZ♯1 Math102, sec 12

Net Time Allowed: 20 minutes

Name: **ID ♯ :** **Serial:**

Exercise1:

Let f be a continuous function on $[-1,\, x]$ with $f(-1) = 0$, F, G two differentiable functions such that:

$F(x) = \displaystyle\int_{-1}^{x} f(t)\, dt$ and $G(u) = \displaystyle\int_{-1}^{u} e^{-t}\, F(t)\, dt$.

Find $G'(-1) + G''(-1)$.

Solution:

Exercise2:

Evaluate the Riemann sum for $f(x) = \sin x$, $\pi \leq x \leq 2\pi$ with four sub-intervals, taking the sample points to be the right end points.