October 31,2013

QUIZ♯3 Math102-sec15.

Net Time Allowed: 20 minutes

Name: **ID ♯ :** **Serial ♯:**

Exercise1:

Given that $\sinh x = -\frac{3}{4}$. Find the value of $sechx$.

Exercise2:

Let $f(x)$ be a function such that f' and f'' are continuous on $[0, \pi]$. Given that

$$f(0) = 1,\ f(\pi) = -1\ and\ \int_0^{\pi} f(x)\sin x\,dx = 3.$$

Evaluate $\int_0^{\pi} f''(x)\ \sin x\,dx$