

October 4, 2016

QUIZ#1 Math102-sec 13.

Net Time Allowed: 20 minutes

Name:

ID # :

Serial #:

Exercise1:(05 points)

Evaluate

$$S = \lim_{n \rightarrow \infty} \left[\frac{10}{n} \sum_{i=1}^n \sqrt{\frac{10n + 4i}{2n}} \right] .$$

(Justify clearly your answer!)

Exercise2:(05 points)

If f is a continuous function on $[a, 2t]$, a is a constant, such that :

$$\int_a^{2t} \cos\left(\frac{x}{2}\right) g(x) dx = a + \frac{t}{2} \sin t, \text{ then find } g(2\pi). \quad \text{Justify your answer !}$$