

February 4,2016

QUIZ#1 Math102-sec 12.

Net Time Allowed: 20 minutes

Name:

ID # :

Serial #:

Exercise1:(05 points)

Evaluate

$$S = \lim_{n \rightarrow \infty} \left[\frac{5}{n} \sum_{i=1}^n \sqrt{\frac{15n + 9i}{3n}} \right] .$$

(Justify clearly your answer!)

Exercise2:(05 points)

If g is a continuous function on $[-3, 0]$ such that : $\int_0^{-3} g(t) dt = \sqrt{2}$, then find

$$\int_{-3}^0 \left(1 + \frac{3g(x)}{\sqrt{2}} \right) dx . \quad \text{Justify your answer !}$$