February 6,2018

QUIZ♯1 Math102-sec 32

Net Time Allowed: 20 minutes

Name: **ID ♯ :** **Serial ♯:**

(**Justify clearly your answer !**)

Exercise1:(05 points)

$$\text{Find } \lim_{n \longrightarrow \infty} \sum_{k=1}^{n} \left(\frac{2}{n} + \frac{3k}{n^2} \right)$$

Exercise2:(05 points)

Evaluate $I = \lim_{t \longrightarrow 0^+} \frac{d}{dt} \int_1^{\sqrt{t}} \frac{\sin x^2}{x}\, dx.$