

February 6, 2018

QUIZ#1 Math102-sec 9

Net Time Allowed: 20 minutes

Name:

ID # :

Serial #:

(Justify clearly your answer !)

Exercise1:(05 points)

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

Exercise2:(05 points)

Find the slope of the tangent line to the curve $y = \int_2^{\sec x} \frac{\sqrt{t^2 - 1}}{t} dt$, $0 < x < \frac{\pi}{2}$ at $x = \frac{\pi}{3}$.