

February 25,2016

QUIZ#2 Math102-sec 12.

Net Time Allowed: 25 minutes

Name:

ID # :

Serial #:

**Exercise1:**(05 points)

Evaluate  $\int \sqrt{\frac{1}{x} + \frac{1}{\sqrt{x}}} dx$

**(Justify clearly your answer!)**

**Exercise2:**(05 points)

Find the **slope** of the tangent line to the curve  $y = \int_3^{\sec x} \frac{\sqrt{t^2 - 1}}{t} dt$ ,  $0 < x < \frac{\pi}{2}$ ,  
at  $x = \frac{\pi}{3}$ . **Justify your answer !**