

February 22,2018

QUIZ#2 Math102-sec 32

Net Time Allowed: 20 minutes

Name:

ID # :

Serial #:

(Justify clearly your answer !)

Exercise1:(05 points)

Evaluate $\int_{\frac{\pi}{2}}^{\pi} \sqrt{1 - \sin^2 t} dt.$

Exercise2:(05 points)

The base of a solid is bounded by the curves $y = e^x, y = 0, x = 0$ and $x = 1$. If the cross sections, perpendicular to the x -axis, are **semicircles**, then find the volume of the solid.

(sketch the graph and a typical cross section !)