

March 20,2016

QUIZ#3 Math102-sec 31.

Net Time Allowed: 35 minutes

Name:

ID # :

Serial #:

Exercise1:(05 points)

Evaluate $\int x^2 (\ln x)^2 dx$

(Justify clearly your answer!)

Exercise2:(05 points)

Write out the form of the partial fraction decomposition of

$$F(x) = \frac{2x^2 + 7}{x^3(2x - 1)(x^2 + 25)^2} \cdot \text{(Do not evaluate the constants !)}$$

Exercise2:(05 points)

Evaluate $\int_0^{\sqrt[4]{\frac{\pi}{4}}} t^3 \sec^4(t^4) \tan^4(t^4) dt$ Justify your answer !