

March 28, 2009

QUIZ#2 Math102, sec 5-25

Net Time Allowed: 20 minutes

Name:

ID # :

section:

Exercise1:

Evaluate the following integrals:

1-

$$\int \frac{\sqrt{1-t^2} - t}{\sqrt{1-t^2}} dt$$

2-

$$\int \frac{x^2 + x + 1}{x^2 + 1} dx$$

3-

$$\int \left(\frac{2}{3}\right)^x dx$$

solution:

Exercise2:

If $\int_{-1}^2 f(t) dt = 4$ and $\int_1^2 f(2t) dt = 1$. Then evaluate $\int_{-\frac{1}{3}}^{\frac{4}{3}} f(3t) dt$.

solution: