

Open Book Quiz

Intermediate Calculus & Analytic Geometry (MATH 242 A) Date: November 5, 2013

Name:

1. (3 pt) Evaluate the integral $\int_4^5 \frac{x^3 - 3x^2 - 9}{x^3 - 3x^2} dx$.

2. Determine whether the integral is convergent or not. If that is convergent, then evaluate it.

a. (2 pt) $\int_e^\infty \frac{1}{x (\ln x)^3} dx$

b. (2 pt) $\int_{-\infty}^{\infty} x e^{-x^2} dx$

c. (3 pt) $\int_2^{\infty} \frac{dv}{v^2+2v-3}$