

ESP Quiz 9 (Kouba)

Please PRINT your name here : _____

This quiz is due next Tuesday at the beginning of ESP.

1.) (15 pts. each) Evaluate the following improper integrals. You must make proper use of notation and limits.

a.) $\int_1^{\infty} \frac{1}{x^3} dx$

b.) $\int_0^1 \frac{1}{\sqrt{x}} dx$

c.) $\int_2^{\infty} \frac{1}{x^2 + 4} dx$

d.) $\int_1^{\infty} xe^{-x} dx$ (At some point you must use L'Hopital's rule on this problem.)