

ESP Quiz 5 (Kouba)

Please PRINT your name here : _____

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

1.) (10 pts. each) Evaluate the following indefinite integrals.

a.) $\int \sin^2(3x) dx$

b.) $\int x^2 \ln x dx$

c.) $\int x^2 \sin x dx$

d.) $\int \frac{x+3}{x^3+x} dx$

- 2.) (25 pts.) Evaluate the following indefinite integral using a.) u-substitution.
b.) integration by parts. c.) Show that the answers are the same.

$$\int x\sqrt{x+2} dx$$