

Name: _____

Math 232 Quiz 3

1. (10 pts) Evaluate the integral using integration by parts.

(a) $\int_0^{\pi/2} x \sin x \, dx$

(b) $\int x^2 e^x \, dx$

2. (10 pts) Evaluate the trigonometric integral.

(a) $\int \cos^2 x \, dx$

(b) $\int_0^{\pi/2} \sin^3 x \, dx$