

Name _____

Homework 2
Section 7.2

1. (8) Compute $\int x \ln x \, dx$ using the following “parts”:

(a) $u = \ln x$

(b) $u = x \ln x$

2. (6) Compute $\int_0^2 x^3 e^{x^2} dx$

3. (6) Determine $\int \theta^3 \sin \theta \, d\theta$