

Quiz 1

Fall 2018

MATH 222

Name: _____

Problem 1. (4 Points) Answer the following questions. **No** partial credit will be given, and you **do not** need to show your work.

(a) Complete the integration by parts formula:

$$\int u \, dv = \underline{\hspace{10cm}}$$

(b) Circle the correct answer:

$$\cos^2(x) = \qquad \frac{1}{2}(1 + \cos(2x)) \qquad \text{or} \qquad \frac{1}{2}(1 - \cos(2x))$$

Problem 2. (6 Points) Compute $\int x \ln(2x) \, dx$