Calculus II - Fall 2014 - Mr. Clontz - Quiz 06

Fill in the circle for the correct answer for each of the following problems.

Name: _______ 9am / 10am

- 1. (10 points) Evaluate $\int x \cos(x) dx$.
 - $\bigcirc x\sin(x) + \cos(x) + C$
 - $\bigcirc x \cos(x) \cos(x) + C$
 - $\bigcirc x^2 \cos(x) + \sin(x) + C$
 - $\bigcirc x^2 \sin(x) + x \sin(x) + C$
 - O None of these.
- 2. (10 points) Evaluate $\int \sin^3(\theta) \cos^3(\theta) d\theta$.
 - $\bigcirc \frac{\sin^3(\theta)}{3} \frac{\sin^5(\theta)}{5} + C$
 - $\bigcirc \frac{\cos^5(\theta)}{5} \frac{\cos^3(\theta)}{3} + C$
 - $\bigcirc \frac{\sin^4(\theta)}{4} \frac{\sin^6(\theta)}{6} + C$
 - $\bigcirc \frac{\cos^6(\theta)}{6} \frac{\cos^4(\theta)}{4} + C$
 - O None of these.
- 3. (10 points) Evaluate $\int \tan^6(x) \sec^4(x) dx$.
 - $\bigcirc \frac{\sec^7(x)}{7} \frac{\sec^9(x)}{9} + C$
 - $\bigcirc \frac{\sec^9(x)}{9} + \frac{\sec^7(x)}{7} + C$
 - $\bigcirc \frac{\tan^7(x)}{7} \frac{\tan^9(x)}{9} + C$
 - $\bigcirc \frac{\tan^9(x)}{9} + \frac{\tan^7(x)}{7} + C$
 - O None of these