

Name: _____

Section: _____

Math 10550, Quiz 5
February 28, 2017

- The Honor Code is in effect for this quiz. All work is to be your own.
- Please turn off all cellphones and electronic devices.
- Calculators are NOT allowed
- The quiz lasts for 10 min.

PLEASE MARK YOUR ANSWERS WITH AN X, not a circle!

1. (a) (b) (c) (d) (e)

2. (a) (b) (c) (d) (e)

.....

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Multiple Choice

1.(2 pts.) Calculate:

$$\int e^{2x} \sin(x) dx$$

(a) $\frac{2e^{2x} \sin(x)}{5} - \frac{e^{2x} \cos(x)}{5} + C$

(b) $\frac{e^{2x} \cos(x)}{4} + \frac{e^{2x} \sin(x)}{6} + C$

(c) $\frac{\cos(x)}{5} + \frac{e^{2x}}{5} + C$

(d) $\frac{2e^{2x}}{10} + \frac{e^{2x} \sin(x)}{5} + C$

(e) $\frac{e^{2x}}{5} - \frac{2e^{2x} \sin(x)}{5} + C$

2.(2 pts.) Calculate:

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

(a) $\frac{\pi}{6}$

(b) $\frac{1}{12}$

(c) $\frac{1}{6}$

(d) $\frac{5}{12}$

(e) $\frac{1}{60}$

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