

Name: \_\_\_\_\_

Section: \_\_\_\_\_

**Math 10560, Quiz 4**  
**February 14, 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.) Evaluate the integral

$$\int_0^{\frac{\pi}{2}} \sin^7 x \cos^3 x dx$$

(a)  $\frac{1}{9} - \frac{1}{11}$

(b)  $\frac{1}{9} + \frac{1}{11}$

(c)  $\frac{1}{7} - \frac{1}{9}$

(d)  $\frac{1}{8} - \frac{1}{10}$

(e)  $\frac{1}{8} + \frac{1}{10}$

2.(2 pts.) Evaluate

$$\int_2^{e^3} \ln x dx$$

(a)  $e^3 - \ln 2 - 3$

(b)  $3e^3 + 2 \ln 2 - 4$

(c)  $2e^3 - 2 \ln 2 + 2$

(d)  $\ln(9) + \ln 2 - 3$

(e)  $3 \ln(3) + 2 \ln 2 - 2$