Name: _____

Section: _____

Math 10560, Quiz III
February 7, 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)

Multiple Choice

1.(2 pts.) Evaluate the definite integral

$$\int_{-1}^{1} \arctan(x)\,dx$$

Note: $\arctan(x) = \tan^{-1}(x)$.

(a) $\dfrac{\pi}{2} - \ln 2$ (b) 0   (c) $\dfrac{\pi}{2} + \ln 2$

(d) $\dfrac{\pi}{4} - \ln 2$ (e) $\dfrac{\pi}{2}$

2.(2 pts.) Evaluate the limit

$$\lim_{x \to 0^+} \frac{1}{x^x}$$

(a) $-\infty$ (b) ∞ (c) 1

(d) Does not exist   (e) 0

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