Name: _	
Section:	
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Math 10560, Quiz 7 March 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)
	•••••	•••••		•••••••••••	••••••	

Multiple Choice

1.(2 pts.) Consider the sequence

$$a_n = \left(1 + \frac{\pi}{n}\right)^n$$

for $n \ge 1$. What can you say about the convergence/divergence of the sequence?

- (a) The sequence converges to π
- (b) The sequence converges to e
- (c) The sequence converges to π^e
- (d) The sequence does not converge
- (e) The sequence converges to e^{π}

2.(2 pts.) Determine if the following series is convergent or divergent. If the series converges, find its sum.

$$\sum_{n=2}^{\infty} \frac{(-1)^n 2^n}{5^{n+2}} \, .$$

(a) $\frac{4}{175}$

(b) $\frac{4}{875}$

(c) $\frac{4}{375}$

 $(d) \quad \frac{4}{75}$

(e) The series diverges