Name: _	
Section:	

Math 10560, Quiz 10 April 18, 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)			
		• • • • • • • • • • • • • • • • • • • •						

Name: _____ Section:

Multiple Choice

1.(2 pts.) Which series below is a power series representation, valid for -1 < x < 1, of the function

$$f(x) = \frac{x^2}{1 + x^3} ?$$

(a) $\sum_{n=0}^{\infty} x^{3n}$

- (b) $\sum_{n=0}^{\infty} x^{3n+2}$ (c) $\sum_{n=0}^{\infty} (-1)^n x^{3n+2}$
- (d) $\sum_{n=2}^{\infty} \frac{(-1)^n x^{3n}}{(3n)!}$ (e) $\sum_{n=0}^{\infty} \frac{x^{3n+2}}{3n+2}$

2.(2 pts.) Find the radius of convergence of the power series

$$\sum_{n=0}^{\infty} \frac{(-1)^n (6x+1)^n}{n+1}.$$

(a) $R = \frac{1}{6}$

(b) R = 0

(c) $R = \infty$

(d) R = 6

R = 1(e)

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