KFUPM	Term 122		Date: 15/5/2013	
Mathematics & Statistics	MATH 102	Du	Duration: 25 minutes	
	Quiz# 6			
Name:	ID #:	Section 28	Serial #:	
1. Find the interval and radius of convergence of $\sum_{n=1}^{\infty} \frac{(2x-1)^n}{n^3}$ .				

2. Find the maximum error in approximating the sum of the series  $\sum_{n=1}^{\infty} \frac{(-1)^n n}{5^n}$  using the first four terms.

3. Find the sum of the series  $\sum_{n=0}^{\infty} \frac{x^n}{2^n(n+1)!}$  for  $x \neq 0$ .

4. Approximate  $tan^{-1}1$  using only the first three nonzero terms.

With My Best Wishes