KFUPM – Department of Mathematics and Statistics – Term 142 MATH 102

QUIZ6 # Code 1 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Determine whether the series $\sum_{n=1}^{\infty}$	$\frac{\tan^{-1} n}{n^2 + 1}$ is convergent or divergent (Justify).	

Exercise 2 (5points)

Determine whether the series $\sum_{n=1}^{\infty} (-1)^n \left(\frac{n}{2} \sin(\frac{1}{n})\right)^n$ is convergent or Divergent (Justify).

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QUIZ # 6 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5points)		
Determine whether the series	$\sum_{n=1}^{\infty} \frac{n \ln(n^2 + 1)}{n^2 + 1}$ is convergent or divergent	

Exercise 1 (5 points)

Determine whether the series $\sum_{n=1}^{\infty} (-1)^n \left(\frac{1}{2} - \frac{\ln(1+n)}{n}\right)^n$ is convergent or divergent (Justify).