KFUPM – Department of Mathematics and Statistics – Term 122

MATH 102

QUIZ5 # Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

The series $\sum_{n=2}^{\infty} \frac{(-1)^n}{n(\ln n)^2}$ is:

Conditionally convergent	
Not conditionally convergent	
Absolutely divergent	
Divergent by Divergence Test	
Divergent by AST	

Exercise 2 (5points)

The series $\sum_{n=0}^{\infty} \left(\frac{n}{2} \sin(\frac{1}{n}) \right)^n$ is:

Divergent by Divergence Test	
Convergent by Root Test	
Divergent by Root Test	
Divergent by comparison Test	
Divergent by limit comparison Test	

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MATH 102

QUIZ # 5 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5points)

The series $\sum_{n=0}^{\infty}\left(\frac{n}{2}\sin(\frac{1}{n})\right)^{n}$ is:

Divergent by Divergence Test	
Divergent by Root Test	
Convergent by Root Test	
Divergent by comparison Test	
Divergent by limit comparison Test	

Exercise 1 (5 points)

The series $\sum_{n=2}^{\infty}\frac{(-1)^{n}}{n(\ln n)^{3}}$ is:

Absolutely divergent	
Conditionally convergent	
Not Conditionally convergent	
Divergent by Divergence Test	
Divergent by AST	