KFUPM – Department of Mathematics and Statistics – Term 111

MATH 102

QUIZ4 # Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

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

Exercise 2 (5points). Let p be a positive integer. All values of p for which the series $\sum_{n=3}^{\infty} \frac{n^{p-3}}{1-e^{-n}}$ is divergent are:

$p < 3$	
$3 < p$	
$3 \leq p$	
$2 \leq p$	
$1 \leq p$	

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MATH 102

QUIZ # 4 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

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

Exercise 2 (5points). Let p be a positive integer. All values of p for which the series $\sum_{n=1}^{\infty} \frac{\sin((2n+1)\pi)}{n^{p-5}}$ is convergent are:

$0 \leq p$	
$1 \leq p$	
$6 \leq p$	
$p \leq 5$	
$1 \leq p \leq 5$	