

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)The series $\sum_{n=3}^{\infty} \frac{(-1)^n \ln n}{n}$ is

Conditionally convergent	
Conditionally divergent	
Absolutely convergent	
Divergent by AST	
Divergent by ratio Test	

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

$0 < p \leq 2$	
$0 < p < 2$	
$0 \leq p < 2$	
$0 \leq p \leq 2$	
$0 \leq p$	

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Exercise 1 (5 points)The series $\sum_{n=3}^{\infty} \frac{(-1)^n \ln n}{n^2}$ is

Conditionally convergent	
Conditionally divergent	
Absolutely divergent	
Divergent by AST	
Divergent by ratio Test	

Exercise 2 (5points). Let p be a positive integer. For which values of p the series $\sum_{n=1}^{\infty} \frac{\cos(n\pi)}{n^p}$ is convergent.

$0 \leq p$	
$1 \leq p$	
$2 \leq p$	
$3 \leq p$	
$1 \leq p \leq 3$	

