

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

The interval of convergence of the power series $\sum_{n=1}^{\infty} \frac{(x-2)^n}{3^n}$ is:

$[-1,5]$	
$(-1,5)$	
$[-1,5)$	
$(-1,5]$	
$[1,5)$	

Exercise 2 (5points)

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

$\ln\left(\frac{1}{2}\right)$	
$\ln\left(\frac{2}{3}\right)$	
$\ln\left(\frac{3}{2}\right)$	
$-\ln\left(\frac{1}{2}\right)$	
$\ln 3$	

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Exercise 1 (5 points)

The interval of convergence of the power series $\sum_{n=1}^{\infty} \frac{(x-3)^n}{2^n}$ is:

[1,5]	
(1,5)	
[1,5)	
(1,5]	
[-1,5)	

Exercise 2 (5points)

The sum of the series $\sum_{n=1}^{\infty} \frac{(-1)^n}{3^n n}$ is:

$\ln\left(\frac{1}{3}\right)$	
$\ln\left(\frac{3}{4}\right)$	
$\ln\left(\frac{4}{3}\right)$	
$-\ln\left(\frac{1}{3}\right)$	
$\ln 4$	

