

§8.1: Sequence Convergence Activity

Sequence	Notes
$a_n = \frac{5}{2n+1}$	
$a_n = \frac{e^n}{n!}$	
$a_n = \sin\left(\frac{1}{n}\right)$	
$a_n = \frac{(-1)^n n}{e^n}$	
$a_n = \frac{\sin n^2}{\sqrt{n}}$	
$a_n = \frac{(-1)^n n^4}{n!}$	
$a_n = \frac{n8^n}{3^{2n+1}}$	
$a_n = \cos\left(\frac{n}{n^2}\right)$	
$a_n = \frac{\sqrt{n^2+1}}{3n-1}$	

Sequence	Notes
$a_n = \left(1 + \frac{1}{n}\right)^n$	
$a_n = \frac{\ln n}{\ln(n^2)}$	
$a_n = \frac{3n^3 + n}{1 - 4n^2}$	
$a_n = \frac{(-1)^n 2^n}{n^4}$	
$a_n = \frac{(-1)^n n^2}{n^2 + 1}$	
$a_n = \frac{n}{\ln n}$	
$a_n = \frac{10^n}{n5^n}$	
$a_n = \frac{n^2}{n \ln n}$	
$a_n = \frac{e^n}{\sqrt{n}}$	