



Series

Sums of simple things can approximate the complex.

8A*	Understanding Power Series <ul style="list-style-type: none">• Use sigma notation correctly• Identify and calculate geometric series• Identify and simplify power series for other functions	
8B*	Understanding Taylor's Theorem <ul style="list-style-type: none">• Create Taylor Polynomials• Find information about a function and its derivatives from a Taylor polynomial• Recall and identify common Maclaurin series• Estimate errors of a Taylor polynomial	
8C*	Understanding Convergence <ul style="list-style-type: none">• Find the radius of convergence• Use the nth term test• Use the ratio test• Use the integral test• Use the comparison test• Recognize harmonic series and use them for convergence tests• Recognize p-series and use them for convergence tests	