Convergence and Divergence of Series

Name_____

S A N If the nth term of a series goes to a non-zero constant as n goes to infinity then the series diverges.

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S A N If the nth term of a series goes to zero as n goes to infinity then the series converges.

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S A N The ratio test can be used to determine when a series converges or diverges.

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S A N If the radius of convergence of a power series is zero then the power series diverges for all real numbers.

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S A N If a power series has a center of convergence at $x = 5$ and it is known that the series converges for $x = 7$, then the series also converges for $x = 3$.

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