Abel's Theorem. *Let* $f(x) = \sum_{n=0}^{\infty} a_n x^n$ *be a power series with finite positive radius of convergence* R. *If the series converges at* $x = R$, *then the series converges uniformly on* $[0, R]$ *and* f *is continuous of* $x = R$. *If the series converges at* $x = -R$, *then the series converges uniformly on* $[-R, 0]$ *and* f *is continuous of* $x = -R$.