1. Find the $5^{\text {th }}$ Maclaurin polynomial for $f(x)=\sinh x$.
2. Find the $6^{\text {th }}$ Taylor polynomial for $f(x)=\cosh x$ about $\mathrm{x}=0$.
3. Differentiate the polynomial you found in problem 2.
4. Find the Maclaurin series for $f(x)=\cosh x$.
5. Find the interval of convergence of the series you found in problem 4.
