

1. Use the Maclaurin series for $\cos(x)$ to find the series for $\cos(\sqrt{x})$. Write your final answer in sigma notation.
2. Find the first five terms of the binomial series for $\sqrt{1+x}$.

MATH 201
April 29, 2025



1. Use the Maclaurin series for $\sin(x)$ to find the series for $x \sin(x^2)$. Write your final answer in sigma notation.
2. Find the first five terms of the binomial series for $\sqrt[3]{1+x}$.