
Name: _____

QUIZ 24 ♠

MATH 201
April 30, 2024

1. Use the Maclaurin series for $f(x) = e^x$ to obtain a series for the function $g(x) = x^2(e^x - 1)$.
Write your final answer in sigma notation.

2. Write the first four terms of the binomial series for $(x + 1)^{-4}$.

Name: _____

QUIZ 24 \diamond

MATH 201
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1. Write the first four terms of the binomial series for $(x + 1)^{-2}$.

2. Use the Maclaurin series for $f(x) = e^x$ to obtain a series for the function $g(x) = e^{2x}$.

Write your final answer in sigma notation.

Name: _____

1. Use the Maclaurin series for $f(x) = e^x$ to obtain a series for the function $g(x) = x^2(e^x - x - 1)$.

Write your final answer in sigma notation.

2. Write the first four terms of the binomial series for $(x + 1)^{-1}$.

Name: _____

1. Write the first four terms of the binomial series for $(x + 1)^{-3}$.

2. Use the Maclaurin series for $f(x) = e^x$ to obtain a series for the function $g(x) = xe^{-x}$.

Write your final answer in sigma notation.