Practice Midterm 2

Math 253

February 27, 2024

You may use a hand-written sheet of notes.

Show your work where appropriate.

No calculators or cheating.

1. Does converge or diverge, and why?
2. Does converge or diverge, and why?
3. Does converge absolutely, conditionally, or not at all?
4. Does converge or diverge, and why?
5. Find the fourth Taylor polynomial of the function .
6. For which values of x does the series converge?