

Homework 14
Calculus II

Due March 30, 2026
Prof. Nollet

Section 9.1 #2, 3, 32, 35, 41, 57, 62, 65, 71, 121, 123, 126, 129

Hints:

#32. Write as a sum of two parts.

#40. What happens to the even terms? The odd terms?

#14. Trig substitution.

#57, 62, 65, 71. Take logarithm.

#121. Derivative will tell you about increasing/decreasing behavior, or write it as a difference.

#123. This one is a bit hard. Observe that $a_{n+1}/a_n = 6/n + 1$ What does this tell you about increasing/decreasing behavior? You should be able to use this behavior to determine upper bound, lower bound is zero.

#126. Derivative shows increasing/decreasing behavior. Is it bounded?

#129. What is behavior of odd terms? Even terms?