

Written HW23 – MATH 2502 Fall 2021

Due by 10 November for timely completion credit

Use the techniques from class to find series representations for the given function with the given center. Find the interval of convergence and include a plot that shows the given function and a series approximation containing five nonzero terms of the series.

1. $f(x) = \frac{2}{9x - 12}, \quad c = 2$

2. $f(x) = \frac{3}{2x + 9}; \quad c = -6$