

Written HW18 – MATH 2502 Spring 2021

Due by 23 April for timely completion credit

Use the techniques from the 16 April 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. $f(x) = \frac{3}{2x + 9}; \quad c = -6$