Student handout

Go to GMM: Guessing Power Series from Graphs.

Use the Geogebra applet to match the given function (shown in green) exactly by using the sliders to guess the power series representation of the function.

Use only graphical reasoning.

When you are done, make a note of any relationship you see between the values of the coefficients and the shape of the graph.

Hint: You will only need three non-zero terms.

Instructor's guide

Liz Winter 2025 - I did this as an in-class activity this year. Students didn't really know how to guess what the power series was from the shape of the graph. Maybe structure the discussion to support this or do a more explicit example.