

Math 1AA3/1ZB3: Week 7 Tutorial Problems

February 22, 2019

1. Find a power series representation of the following function and determine the interval and radius of convergence:

$$f(x) = \frac{x^2}{3 + x^2}$$

2. Find the Taylor series centered at $x = 2$ for the function $f(x) = \frac{2}{x}$.
3. Find the quadratic Taylor approximation to $f(x) = \frac{2}{x}$ centered at $x = 2$ and compute error bounds on the intervals $(1, 3)$ and $(0, 4)$.