

Power Series

Write down the power series about $x = 0$ for each of the following functions, and keep it as a reference. You will need to know these for exams. Be sure to write down enough terms to establish the pattern.

$$\sin x =$$

Interval of convergence:

$$\cos x =$$

Interval of convergence:

$$e^x =$$

Interval of convergence:

$$\ln(x + 1) =$$

Interval of convergence:

$$(x + 1)^p =$$

Interval of convergence: