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Name: _____

Assignment 1, Due Monday Jan 18, 11:00AM.

In class, we reviewed series and were introduced to power series.

1. (5 points) e^x
   (a) Find the series expansion
   (b) Find the region of convergence

2. (5 points) $\ln(1 + x)$
   (a) Find the series expansion
   (b) Find the region of convergence

3. (5 points) $(1 + x)^p$
   (a) Find the series expansion
   (b) Find the region of convergence

4. What is the small angle approximation? Knowing what you know about the topics we've covered in this class, how could you justify the small angle approximation?