

# Taylor Series Example

Let's try an example.

Take the function

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

Now do the following:

1. expand about  $x = 0$
2. plot  $f(x)$  on say  $[-1.5, 1.5]$
3. plot several expansions
4. what do you observe? Is the Taylor Series convergent?