Determine the power series for \( f(x) \) using powers of \( x - c \).
The value of \( c \) is indicated. Then determine the interval of convergence.
Organize, show, and write your work clearly. Use correct syntax.

1. \( f(x) = \ln(1 + x), \ c = 0 \)
2. \( f(x) = \ln(x), \ c = 2 \)
3. \( f(x) = \ln(1 + 2x), \ c = 0 \)