

DATE: \_\_\_\_\_

### Power Series Theorems Practice

Express each function as a power series and determine the interval of convergence.

1.  $f(x) = \frac{2}{(1+2x)^2}$

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2.  $g(x) = \frac{1}{2}\ln(x^2 + 1)$

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3.  $h(x) = \tan^{-1}(4x)$