Worksheet #11

Find the power series representation for f(x) and specify the radius of convergence.

$$(1) \arctan x = \int \frac{1}{1+x^2} dx$$

(2)
$$f(x) = \frac{x^2}{1 - x^4}$$

(3)
$$f(x) = \ln(x^2 + 4)$$

(4)
$$f(x) = \frac{1+x}{(1-x)^2}$$