1. Find an appropriate Padé Approximation for
\[ y = \cos(\sqrt{x}) \] (1)
Compare the result to the Taylor series containing an equivalent polynomial order.

2. Find an appropriate Padé Approximation for
\[ y = \tanh(x) \] (2)
Compare the result to the Taylor series containing an equivalent polynomial order.

3. Find an appropriate Padé Approximation for
\[ y = \frac{1}{\sqrt{1+x}} \] (3)
Compare the result to the Taylor series containing an equivalent polynomial order.