

Name _____

Homework 16

Section 10.1

1. (6) Find the degree 10 Taylor polynomial approximating $g(x) = \cosh x$ near $x = 0$.

2. (7) Construct the Taylor polynomial of degree 3 approximating $f(x) = xe^{2x-6}$ near $x = 3$.

3. (7) Determine the degree 4 Taylor polynomial approximating $f(x) = x^2 \ln(x) + 5x$ near $x = 1$.