Calculus II Final Exam Review

Representations of Functions as Power Series Taylor and Maclaurin Series

- 1. Find the power series representation for the function $f(x) = \frac{10}{1 64x^6}$ and determine the interval of convergence.
- 2. Find the first four nonzero terms of the Taylor series for $f(x) = e^{2x}$ centered at a = 4. [Assume that f has a power series expansion. Do not show that $R_n(x) \to 0$.]