## Math 112 <br> Quiz 9 <br> Wednesday, April 30, 2008

1. Find the Maclaurin series for $f(x)=e^{5 x}$.
2. Find the Maclaurin series for $f(x)=\frac{\sin x}{x}$.
3. Find the Maclaurin series for $f(x)=x^{2} e^{-x}$.
4. Find the sum of the series $\sum_{n=0}^{\infty} \frac{(-1)^{n} \pi^{2 n}}{6^{2 n}(2 n)!}$.
