

Taylor Polynomial Practice - 11/9/16

1. Find the 4th order Taylor polynomial for $f(x) = e^{2x}$ at $x = 0$.

2. Find T_5 for $f(x) = \sin(x)$ at $x = \frac{\pi}{2}$.

3. Find T_5 for $f(x) = \sin(x)$ at $x = 0$.

4. Find the 4th order Taylor polynomial for $f(x) = \cos(2x)$ at $x = 0$.

5. Find the 3rd order Taylor polynomial for $f(x) = \ln(1 + x^2)$ at $x = 0$.