

Math 166: Honors Calculus II Name: _____
Quiz 5 Feb. 24, 2000

1. Define the Taylor polynomial $T_n f(x; a)$ of a function $f(x)$ centered at the point a .
 2. Show that $\frac{d}{dx} T_n f(x) = T_{n-1} f'(x)$.

3. Determine the Taylor polynomial $T_{90}\left(\frac{1+x^{30}}{1+x^{60}}\right)$.