

Section 9.4 Worksheet: Taylor Polynomials

1. What's the difference between Taylor and Maclaurin series?
2. How do we relate Taylor series to the tangent line to a curve at $x = a$?
3. How do we estimate the size of the errors we're making in approximating a function with a Taylor polynomial of given degree?
4. Explain **intuitively, graphically** why only even powers of x appear in the Maclaurin series for $\cos(x)$ (Example 3, p. 494).