

Math 102 — Taylor polynomials

Problem. Find the degree n Maclaurin polynomial for $f(x)$ in each of the following examples.

a. $f(x) = \sin x$, $n = 9$

b. $f(x) = 1/(1 - x)$, $n = 5$

c. $f(x) = 1/(1 + x)$, $n = 5$

d. $f(x) = e^{-x}$, $n = 5$