

Homework for Math 352
Spring 2020

Hwk Set 12. Due Monday, April 13.

30.2 a, b, c, d.

30.6.

31.5 a, b.

X. Find the 6th Taylor polynomial for each function below.

a. $\sec x$, about $c = 0$.

b. $e^{\sin x}$, about $c = 0$.

Y. Find the Taylor series of each function below. Determine its radius of convergence.

a. $f(x) = x/(1 + x^2)$, about $c = 0$.

b. $g(x) = x^3 + 2x$, about $c = 2$.

c. $h(x) = \sin^2 x$, about $x = 0$. Hint: use a trig identity.