Math 142 – Calculus 2 Name_____
Section 10.8 Video Worksheet

Taylor and Maclaurin Series

Taylor Series

Definition –

The Maclaurin series occurs when

The linearization of a differentiable function f at a point a is the polynomial of degree one given by

Taylor Polynomial of Order n

$f(x) = \ln(1+x); a = 0$

Math 142 – Calculus 2 Name_____

Section 10.8 Video Worksheet

$f(x)=\cos x \quad a=\frac{\pi}{4}$

$f(x)=\sinh x$

$f(x)=e^{\frac{x}{2}}$

$f(x)=\sin\left(\frac{x}{2}\right)$

$f(x)=2x^3+x^2+3x-8, \qquad a=1$