

Quiz 3

1. Make a Taylor Series expansion for $f(x) = \sqrt[3]{x}$ at $x=8$.
2. Find the Maclaurin series and its interval of convergence
 $f(x) = \cos 5x$.
3. Find the radius of convergence for the power series
$$\sum_{n=0}^{\infty} \frac{(x-2)^n}{n^2+1}$$
4. Express the Taylor series of the function $f(x) = \log(1+2x)$ about $x=0$ in summation notation.