

Math 2260 Quiz 19

Name _____

Points will be deducted for untidy or disorganized answers

1. (3 points) Find the Taylor Polynomial of order n generated by f at a .
 - (a) $f(x) = \ln x$, $a = 1$, $n = 3$
 - (b) $f(x) = \sqrt{x+4}$, $a = 0$, $n = 2$

2. (2 points) Find the Taylor Series at $x = 0$ (the Maclaurin Series) of the following functions.
 - (a) $x^2 \sin x$
 - (b) $\sin^2 x$

Hint: Recall that $\sin^2 x = (1 - \cos 2x)/2$.