

Math 250b (Spring '08) - Homework 5

1. Recall that $\cosh(x) = (e^x + e^{-x})/2$ and $\sinh(x) = (e^x - e^{-x})/2$.
 - a. Find the Taylor series of these two functions about 0.
 - b. Show that for both of these functions, the Taylor series about 0 converges to the function for all x .