

Quiz 1

MATH 140B

MSTB 124

NAME (2 POINTS):

Problem 1. (4 points) Determine the exact interval of convergence of $\sum \frac{x^n}{n}$.

Problem 2. (4 points) Denote $f_n = \frac{1}{1+x^n}$. Show that $\{f_n\}$ does not uniformly converge on $[0, \infty)$.