

MA 182 GROUP WORK (8.1)

NAME _____

1. Find a formula for the general term a_n of the sequence

A. $\{1, -\frac{1}{2}, \frac{1}{4}, -\frac{1}{8}, \dots\}$.

B. $\{3, \frac{3}{2}, \frac{3}{4}, \frac{3}{8}, \dots\}$

2. Find the first 3 terms of the sequence $\left\{\frac{\sqrt{n+1}}{5n+3}\right\}$. Is the sequence increasing or decreasing?

3. Determine the limit of the sequence $a_n = \frac{(n+1)!}{n!}$.