

Math 21C
Vogler
Worksheet 1

1.) Use the precise definition of the limit of a sequence to prove each of the following statements.

a.) $\lim_{n \rightarrow \infty} \frac{1}{n+5} = 0$

b.) $\lim_{n \rightarrow \infty} \frac{3}{\sqrt{n+2}} = 0$

c.) $\lim_{n \rightarrow \infty} \frac{n+3}{1-n} = -1$