

Quiz 6 MATH 2502 Spring 2019

$$\lim_{n \rightarrow \infty} \frac{n^2 + 3n + 1}{5n^2 - 7n} \stackrel{\infty}{=} \lim_{n \rightarrow \infty} \frac{2n + 3}{10n - 7} \stackrel{\infty}{=}$$

$$\text{L.H.} \lim_{n \rightarrow \infty} \frac{2}{10} = \frac{1}{5}$$

$\epsilon = 1/5 = 0.2, \delta = 0.2$
 $\eta = 1 + \epsilon = 1.2, \rho = \epsilon$
 $\Gamma = 4 + \epsilon = 4.2, \rho = \epsilon$
 $\Pi = \Gamma + \rho = 4.4, \rho = \epsilon$
 $\Theta = \Gamma + \Pi = 8.6, \rho = \epsilon$