MATA31 TUT000

Quiz 3 on (A5 & A6) **Mark:**_____/20

Last Name:_____ **First Name:**_____ **Student #:**_____

1. [8 points]

Give an $\varepsilon - \delta$ or $\varepsilon - N$ proof for each of the following limit statements using the following guidelines:

Write a formal algebraic statement of what you are trying to prove
Establish a connection between ε and δ . Formulate the proof.

$a) \lim_{x\to\infty} \frac{2x-1}{x+1} = 2$