MATA31 TUT000

Quiz 2 on (A3 & A 4) **Mark:_____/25**

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

1. [4 points] Use the Geometric Definition of Limit to write a Formal (δ, ε, M, N) statement for $\lim_{x\to 2^-}(4-x^3)=-4$. Sketch the graph that illustrates the role of constants involved.

$\lim_{x\to 2^-}(4-x^3)=-4$ means that

$\forall \varepsilon>0\ \exists \delta>0$ st $x\in(2-\delta,2) \Rightarrow 4-x^3\in(-4-\varepsilon,-4+\varepsilon)$

