

Name:

S.r#

Q1) Where is the function $f(x) = \begin{cases} x^2 - x & , x < 0 \\ x - |x - 1| & , 0 \leq x < 1 \\ x & , 1 < x \end{cases}$ continuous?

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Q2) Show that there is a number that is exactly 1 more than its cube?

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Q3) Using definition (i.e. ϵ, δ argument), show that $\lim_{x \rightarrow 1} x^2 - 2x = -1$

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