# MAT0206 - List 6

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**Q.3** $f : [0, \infty)$ given by $f(x) = \sqrt{x}$ is continuous in $[0, \infty)$.
Let $c$ in $(0, \infty)$ and $\epsilon > 0$. Take $\delta = \sqrt{cx}$.
Since $\forall x \in (c - \delta, c + \delta) \implies f(x) \in (f(c) - \epsilon, f(c) + \epsilon)$