

QUIZ 9

(1) Prove that the function  $f(x) = \frac{1}{x}$  on  $(2, \infty)$  is uniformly continuous by verifying the  $\epsilon - \delta$  property. **NOTE: you need to explicitly derive an expression of  $\delta$  as a function of  $\epsilon$ .**

(2) Prove that the function  $f(x) = \frac{1}{\sqrt{x}}$  on  $(2, \infty)$  is uniformly continuous by verifying the  $\epsilon - \delta$  property. **NOTE: you need to explicitly derive an expression of  $\delta$  as a function of  $\epsilon$ .**