Quiz-4

$$D \subseteq \mathbb{R} \text{ such that } \exists a_D \in \mathbb{R}^+ : a_D > 0 \text{ and } \forall d \in D, d \geq a_D$$

$$f_n(x) := \frac{nx}{1 + n^2x^2}$$

Need to show that this sequence converges uniformly on D, but not on $[0, \infty)$

Proof: