

In high School likely all the functions you dealt with were from  $\mathbb{R} \to \mathbb{R}$ . So you might have gotten into the habit of not specifying the domain and codomain. This is bad!!! ::  $f(x) = x^2$  has completely different properties when  $f: \mathbb{N} \to \mathbb{R}$  vs.  $f: \mathbb{R} \to \mathbb{R}$  vs.

At the very least, forgetting to specify the domain and codomain is just a sad way to lose points