

## Exercise 1.5.4

Kevin Martin  
CIS675 - Syracuse University

January 14, 2020

If  $f(x) = x^2$  and  $g(x) = x^2 + 1$ , then  $f(x)$  is  $\theta(g(x))$ ,  $f(x)$  is big-O of  $g(x)$  and  $g(x)$  is big-O of  $f(x)$ , but they are different functions.