

Types in Haskell

EECS 368 Homework

Due: Monday 23rd April, 10am (start of class)

Answer!

1. What is the type of the function f ?

$f\ x = x$

$f :: p \rightarrow p$

2. What is the type of the function g ?

$g\ x\ y\ z = (x, (y, z))$

$g :: a1 \rightarrow a2 \rightarrow b \rightarrow (a1, (a2, b))$

3. What is the type of the function h ?

$h\ f\ x = (x, f\ x)$

$h :: (t \rightarrow b) \rightarrow t \rightarrow (t, b)$

4. What is the type of the function p ?

$p\ xs = xs == reverse\ xs$

$p :: Eq\ a \Rightarrow [a] \rightarrow Bool$

5. What is the type of the function r ?

$r\ f\ x = f\ x * f\ x$

$r :: Num\ a \Rightarrow (t \rightarrow a) \rightarrow t \rightarrow a$

