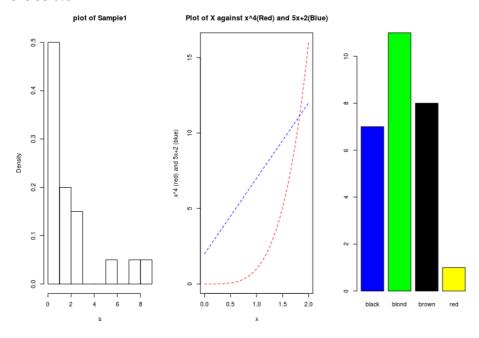
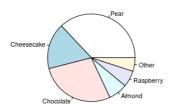
Lucas Faijdherbe(2594812) & Ruben van der Ham(2592271) – CS40

Assignment 0

Exercise 0.6



Pie Chart of Pie flavours



Exercise 0.7

a) We suppose we get a vector containing only 0's and 1's (So in this case, a vector with 30 0's and 70 1's)

```
function.sample1 <- function(vase){
  u = sample(vase, 50, replace = TRUE, prob = NULL);

reds = length(u[u<1]);
  whites = length(u[u>0]);
```

```
fractions = c(reds/50, whites/50);
  return(fractions);
}
b) function.sample2 <- function(n = 10, mr = 30, mw = 70){
       redBalls = rep(0, mr)
       whiteBalls = rep(1, mw)
       vase = c(redBalls, whiteBalls)
       u = sample(vase, n, replace = TRUE, prob = NULL);
       reds = length(u[u<1]);
       whites = length(u[u>0]);
       fractions = c(reds/n, whites/n);
       return(fractions);
     }
c) function.sample3 <- function(){</pre>
 x = 1:200;
 for (i in 1:200) {
   u = sample(1:90, 40, prob = NULL);
   x[i] = median(u);
 }
return(u);
```