Exercici 5

(a)

```
dd <- read.table("http://www-eio.upc.es/~jan/Data/MVA/kernels.dat", header = T)
head(dd)
## area perimeter compactness length width asymmetry groove</pre>
```

```
## 1 15.26
             14.84
                        0.8710 5.763 3.312
                                               2.221 5.220
## 2 14.88
                        0.8811 5.554 3.333
                                               1.018 4.956
              14.57
## 3 14.29
              14.09
                        0.9050 5.291 3.337
                                               2.699 4.825
## 4 13.84
              13.94
                        0.8955 5.324 3.379
                                               2.259 4.805
## 5 16.14
              14.99
                        0.9034 5.658 3.562
                                               1.355 5.175
                        0.8951 5.386 3.312
                                               2.462 4.956
## 6 14.38
              14.21
```

summary(dd)

##	area	perimeter	compactness	length
##	Min. :11.23	Min. :12.63	Min. :0.8392	Min. :4.902
##	1st Qu.:13.75	1st Qu.:13.96	1st Qu.:0.8689	1st Qu.:5.385
##	Median :14.36	Median :14.32	Median :0.8805	Median :5.534
##	Mean :14.33	Mean :14.29	Mean :0.8801	Mean :5.508
##	3rd Qu.:15.04	3rd Qu.:14.73	3rd Qu.:0.8904	3rd Qu.:5.677
##	Max. :17.08	Max. :15.46	Max. :0.9183	Max. :6.053
##	width	asymmetry	groove	
##	Min. :2.850	Min. :0.7651	Min. :4.519	
##	1st Qu.:3.134	1st Qu.:1.8265	1st Qu.:4.925	
##	Median :3.244	Median :2.5455	Median :5.094	
##	Mean :3.245	Mean :2.6674	Mean :5.087	
##	3rd Qu.:3.378	3rd Qu.:3.3010	3rd Qu.:5.223	
##	Max. :3.683	Max. :6.6850	Max. :5.877	