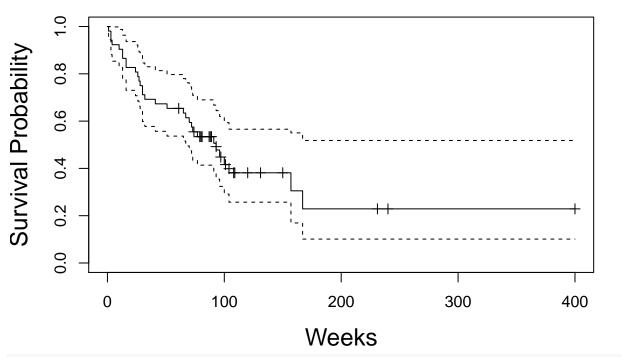


```
library(tidyverse)
library(KMsurv) # data source
library(survival) # problem 3
```

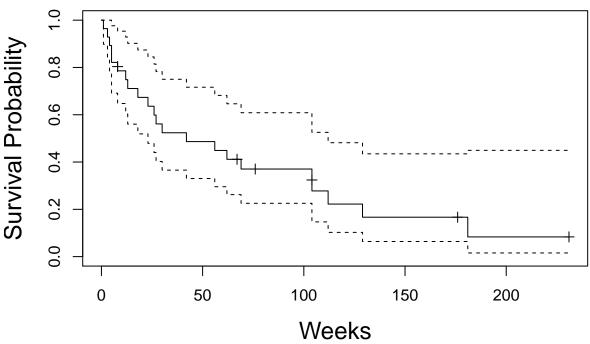
Problem 3

Aneuploid K-M curve



```
xlab = "Weeks", ylab = "Survival Probability", main="Diploid K-M curve",
cex.lab = 1.5, cex.main = 1.5)
```

Diploid K-M curve



```
# one-year survival rate
# Aneuploid
summary(KM1, time = 365/7)
## Call: survfit(formula = Surv(time, delta) ~ 1, data = subset(tongue_df,
       type == "Aneuploid"), conf.type = "log")
##
##
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
   52.1
                     18
                           0.654
                                   0.066
                                                 0.537
# Diploid
summary(KM2, time = 365/7)
  Call: survfit(formula = Surv(time, delta) ~ 1, data = subset(tongue_df,
       type == "Diploid"), conf.type = "log")
##
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             13
                     14
                           0.486 0.0961
                                                  0.33
                                                              0.716
```

The estimated 1-year survival rate (95% CI) is 0.654 (0.537, 0.797) for Aneuploid and 0.486 (0.33, 0.716) for

Diploid.