Nowacek HW 2-3

```r
library(tidyverse)
library(survival)
library(survminer)
library(tidyr)
library(kableExtra)
library(broom)
```

Problem 3

```r
data <- tibble(
  ID = c(1, 2, 3, 4, 5, 6),
  time = c(4.5, 7.5, 8.5, 11.5, 13.5, 17),
  failure = c(1, 1, 0, 1, 0, 1)
)
```

```r
KM_est <- Surv(data$time, data$failure)

KM_fit <- survfit(Surv(time, failure) ~ 1, data = data)
summary(KM_fit, time = 12)
```

```
Call: survfit(formula = Surv(time, failure) ~ 1, data = data)

 time n.risk n.event survival std.err lower 95% CI upper 95% CI
   12      2       3    0.444   0.222        0.167            1
```

```r
plot(KM_fit)
```

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