Solutions - chap15

Exercise 15.3 a(i): a <- 2.0429

b <- -.2821 x50 <- -a/b x50

[1] 7.241758

a(ii): Is due to b being negative.

(b):

```
Phat <- function(x){
    logit <- a+b*x
    odds <- exp(logit)
    prob <- odds/(1+odds)
    prob
}
Phat(20)</pre>
```

[1] 0.0266203

(c):

.847-.051*20

[1] -0.173

Less than zero!

(d): P-value=0.0051 is highly signifikant.

Exercise 15.5

- The race of the defendant has no significant influence.
- If the victim is white, you are significantly more likely to get a death penalty.