

W271 Unit 2 Q4

```
library(tidyverse)
library(sandwich)
library(lmtest)
library(car)

B_0 <- 1
B_1_1 <- 0.8
B_1_2 <- 0.2
xs <- seq(-10, 10, by = 0.01)
logit_1 <- exp(B_0 + B_1_1 * xs)/(1 + exp(B_0 + B_1_1 * xs))
logit_2 <- exp(B_0 + B_1_2 * xs)/(1 + exp(B_0 + B_1_2 * xs))

df <- data.frame(xs)
df$logit_1 <- logit_1
df$logit_2 <- logit_2

# Rename appropriate columns
colnames(df) <- c("xs", "logit_1", "logit_2")

# Plot data
ggplot(data = df, aes(df$xs)) + geom_line(aes(y = df$logit_1, colour = "logit_1")) +
  geom_line(aes(y = df$logit_2, colour = "logit_2")) + labs(title = "Logit functions for two parameters",
  xlab("x") + ylab("Logit"))
```

