MPA 634  
Data Science and R for Administrators  
Homework #3

Geometric Objects

1. Problem 6 from Exercises 3.6.1

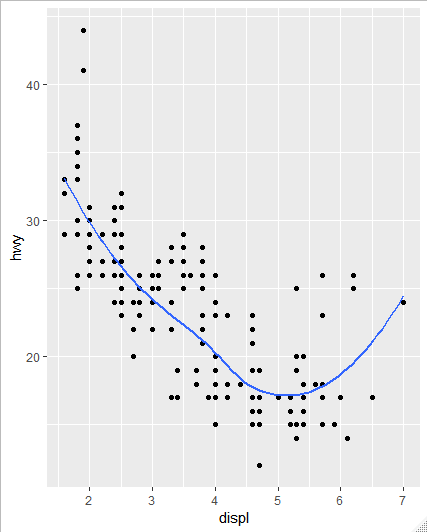
Recreate the plots shown

# Code for 3.6.1 problem 6

ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +

geom\_point() +

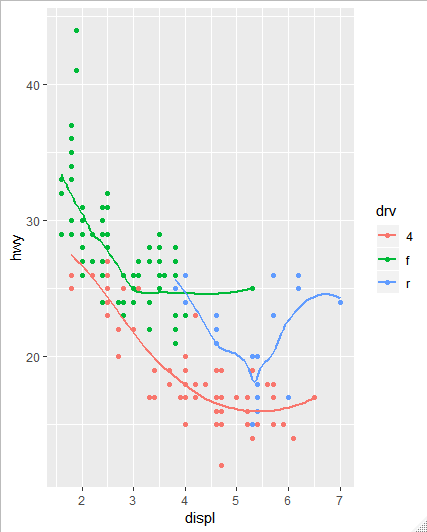
geom\_smooth(se = FALSE)



ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +

geom\_point(mapping = aes(color = drv)) +

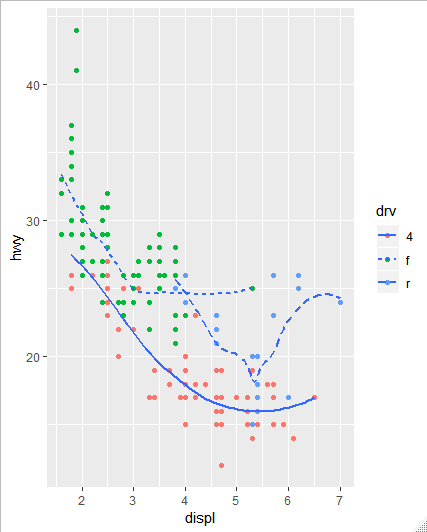
geom\_smooth(se = FALSE, mapping = aes(color = drv))



ggplot(data = mpg, mapping = aes(x=displ, y = hwy)) +

geom\_point(mapping = aes(color = drv)) +

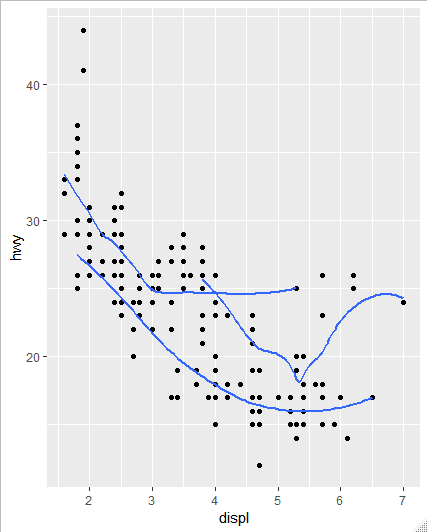
geom\_smooth(se = FALSE, mapping = aes(linetype = drv))



ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +

geom\_point()+

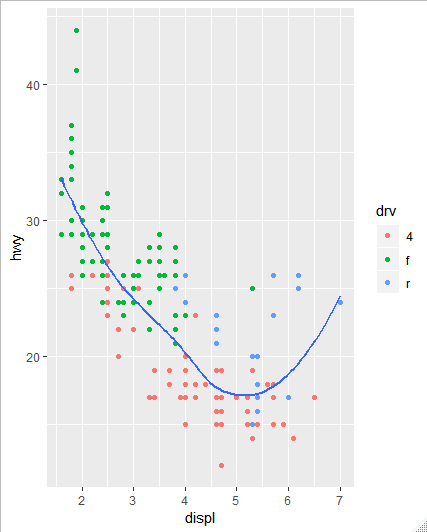
geom\_smooth(se = FALSE, mapping = aes(group = drv))



ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +

geom\_point(mapping = aes(color = drv)) +

geom\_smooth(se = FALSE)



ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +

geom\_point(color = "white", size = 4) +

geom\_point(mapping = aes(color = drv))

