# Question-1: Exercise: Explore the relationship between the following, where x contains numbers

# from 1 to 100:

x <- c(1:100)

y <- 1

x

plot(x, x^2)

plot(x, x^3)

# Question-2:: First we'll produce a very simple graph using the values in the car vector:

cars <- c(1, 3, 6, 4, 9)

# Graph the car vector with all defaults plot(cars)

plot(cars, type="o", col="blue")

# Create a title with a red, bold/italic font title(main="Autos", col.main='red',font.main=4)

title(main="Autos", col.main="red", font.main=4)

# Define 2 vectors cars<-c(1,3,6,4,9)trucks<-c(2,5,4,5,12)

cars <- c(1, 3, 6, 4, 9)

trucks <- c(2, 5, 4, 5, 12)

# Graphs cars using a y-axis that ranges from 0 to 12

plot(cars, type="o",col="blue", ylim=c(0,12) )

# Graph trucks with red dashed line and square points

lines(trucks, type="o",col="red",pch=22,lty=2 )

# Create a title with a red ,bold/italic font

title(main="Autos", col.main="red", font.main = 4)