## STAT 240 - Assignment 2

## Problem 1

```
radius = c(1, 3, 5, 7)
volume = 4/3*pi*radius^3
par(mfrow=c(4, 1), mar=c(4, 4, 2, 1))
plot(radius, volume, main="Line-plot of radius vs. volume of a sphere (type='1')",
     xlab="radius", ylab="volume",
     ylim=c(0, 1500), xlim=c(-1, 9),
     type='l', col="red", lwd=3)
plot(radius, volume, main="Point-plot of radius vs. volume of a sphere (type='p')",
     xlab="radius", ylab="volume",
     ylim=c(0, 1500), xlim=c(-1, 9),
     type='p', col="purple", lwd=4)
plot(radius, volume, main="Line + Point plot of radius vs. volume of a sphere (type='b')",
     xlab="radius", ylab="volume",
     vlim=c(0, 1500), xlim=c(-1, 9),
     type='b', col="blue", lwd=2)
plot(radius, volume, main="Empty plot of radius vs. volume of a sphere (type='n')",
     xlab="radius", ylab="volume",
     ylim=c(0, 1500), xlim=c(-1, 9),
    type='n', col="black", lwd=3.5)
```

