

Q1.R

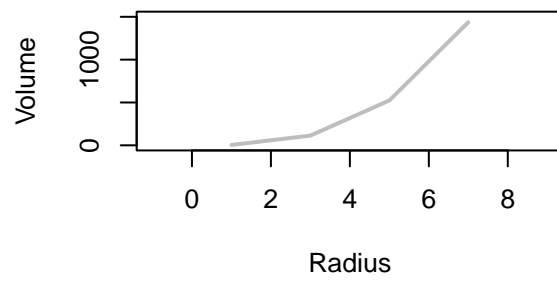
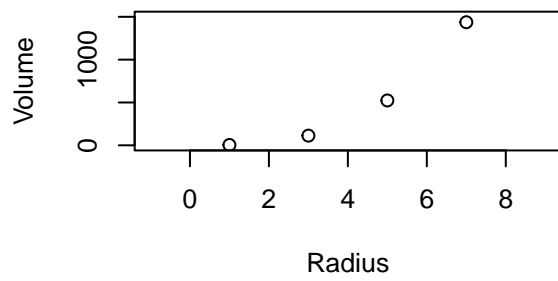
mirrien

2022-01-25

```
radius = c(1,3,5,7)
volume = 4/3*pi*radius^3

par(mfrow=c(2,2))
plot(radius,volume,main="The volume of a sphere with different radii in points",
      xlab="Radius",
      ylab="Volume",
      ylim=c(0,1500),xlim=c(-1,9),
      lwd = 1,
      col = "black",
      type = "p")
plot(radius,volume,main="The volume of a sphere with different radii in line",
      xlab="Radius",
      ylab="Volume",
      ylim=c(0,1500),xlim=c(-1,9),
      lwd = 2,
      col = "grey",
      type = "l")
plot(radius,volume,main="The volume of a sphere with different radii in both points and lines",
      xlab="Radius",
      ylab="Volume",
      ylim=c(0,1500),xlim=c(-1,9),
      lwd = 3,
      col = "blue",
      type = "b")
plot(radius,volume,main="The volume of a sphere with different radii without plotting",
      xlab="Radius",
      ylab="Volume",
      ylim=c(0,1500),xlim=c(-1,9),
      lwd = 4,
      col = "red",
      type = "n")
```

Volume of a sphere with different radii



Volume of a sphere with different radii

