> linkedin <- c(16, 9, 13, 5, 2, 17, 14)

> facebook <- c(17, 7, 5, 16, 8, 13, 14)

> week <- c("Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun")

> names(linkedin) <- week

> names(facebook) <- week

> if ((sum(linkedin)/length(linkedin)) > (sum(facebook)/length(facebook))) {

+ cat("You are more popular on linkedin than on facebook")

+ } else {

+ cat("You are more popular on facebook than on linkedin")

+ }

You are more popular on facebook than on linkedin

> li <- 15

> fb <- 9

> if (fb >= 15 & li >= 15) {

+ sns <- 2\*(li + fb)

+ } else if (fb < 10 & li < 10) {

+ sns <- .5\*(li + fb)

+ } else {

+ sns <- (li + fb)

+ }

> x <- c(0, 5)

> i <- 2

> while (abs(x[i] - x[i-1]) > 0.0001) {

+ x[i+1] <- x[i] - ((x[i] - 1)^3 + 0.5\*(x[i]^2) - x[i] - 2)/(3\*(x[i] - 1)^2 + x[i] - 1)

+ i <- i + 1

+ }

> cat("The solution to the equation (x-1)^3 + 0.5\*(x^2) - x - 2 = 0 is x=", x[i])

The solution to the equation (x-1)^3 + 0.5\*(x^2) - x - 2 = 0 is x= 2.209355