Exercise 3a (bisection method)

1) Describe this algorithm in a "flow diagram"

2) How fast does this method converge?

3) Write a Matlab function file bisection.m that performs, with input x_0 and x_1, the iterations.

4) Apply this to the equation $f(x) = x^3 + 3x - 4 = 0$.

5) the same question for $f(x) = x^3 - 3x + 2 = 0$.