

```
1: program raiz
2: open(15,file="Aula06do02ex3.txt")
3: TOLX = 1.E-4
4: X = .1
5: FOLD = func(x)
6: DX = .5
7: ITER = 0
8: 10 continue
9:     ITER = ITER + 1
10:    X = X + DX
11:    write(15,*) ITER, X
12:    if ((FOLD*FUNC(X)) .LT. 0) then
13:        X = X - DX
14:        DX = DX/2
15:    END IF
16:    if (ABS(DX) .GT. TOLX) GOTO 10
17: STOP
18: END
19:
20: real function func(x)
21: func = cos(x) - x
22: end
```