

```
1: program raizes
2: open(15,file="raizesresultado.txt")
3: TOLX = 1.E-6
4: X = 1.
5: FOLD = func(x)
6: DX = .5
7: ITER = 0
8: EXATA = sqrt(5.0)
9: 10 continue
10:    ITER = ITER + 1
11:    X = X + DX
12:    ERROR = ABS(EXATA-X)/EXATA *100
13:    write(15,*)ITER, X, ERROR, "%"
14:    if ((FOLD*FUNC(X)) .LT. 0) then
15:        X = X - DX
16:        DX = DX/2
17:    END IF
18:    if (ABS(DX) .GT. TOLX) GOTO 10
19: STOP
20: END
21:
22: real function func(x)
23: func = x**2 - 5
24: end
```