

```
1: Program GraficoRaizes
2: integer N
3: real delt_X, X, X_min, X_max
4: PARAMETER (PI = ACOS(-1.0))
5: open(13, file = "graficoCosX.txt")
6: open(15, file = "graficoX.txt")
7: X_min = 0
8: X_max = PI/2.0
9: N = 1000
10: do i = 0, N+1
11: delt_X = (X_max - X_min)/N
12: X = X_min + i*delt_X
13: f = cos(x)
14: write (13, *) x, f
15:
16: enddo
17: do i = 0, N+1
18: delt_X = (X_max - X_min)/N
19: X = X_min + i*delt_X
20: f = x
21: write (15, *) x, f
22: enddo
23: end program
```