

```

1  Attribute VB_Name = "Módulo2"
2  Option Explicit
3
4  Sub Secante_v1()
5  ' implementação essencial do método da secante
6  Dim xk As Single, xk1 As Single, xk2 As Single
7  Dim NDS_est As Integer, NDS_des As Integer
8  Dim EAR As Double
9  Dim Iter As Integer
10 NDS_des = 4
11 Iter = 1
12 xk = 1036.23
13 xk1 = 300
14 Do While (NDS_est < NDS_des)
15     xk2 = (xk * Fx(xk1) - xk1 * Fx(xk)) / (Fx(xk1) - Fx(xk))
16     EAR = Abs((xk1 - xk) / xk1)
17     If (EAR > 1 * 10 ^ -6) Then
18         NDS_est = Application.Floor(-Log(EAR / 0.5) / Log(10), 1)
19     Else
20         NDS_est = 6
21     End If
22     xk = xk1
23     xk1 = xk2
24     Iter = Iter + 1
25 Loop
26 MsgBox ("A raiz é " & xk)
27 End Sub
28 Function Fx(x)
29     Fx = x ^ 2 + x - 6
30 End Function
31 Function DFx(x)
32     DFx = 2 * x + 1
33 End Function
34
35

```