

Task 1

Entradas

teta1=1 teta2=8

```
newton [0.96988621 0.11078792 0.07612798]  
broyden [0.96988628 0.11078785 0.07612814]
```

Task 2

Entradas

```
a = 1      b = 5  
c1= 0.25  c2=0.9      c3=-2.0      c4=1.2  
derivada x=2 dx=0.1
```

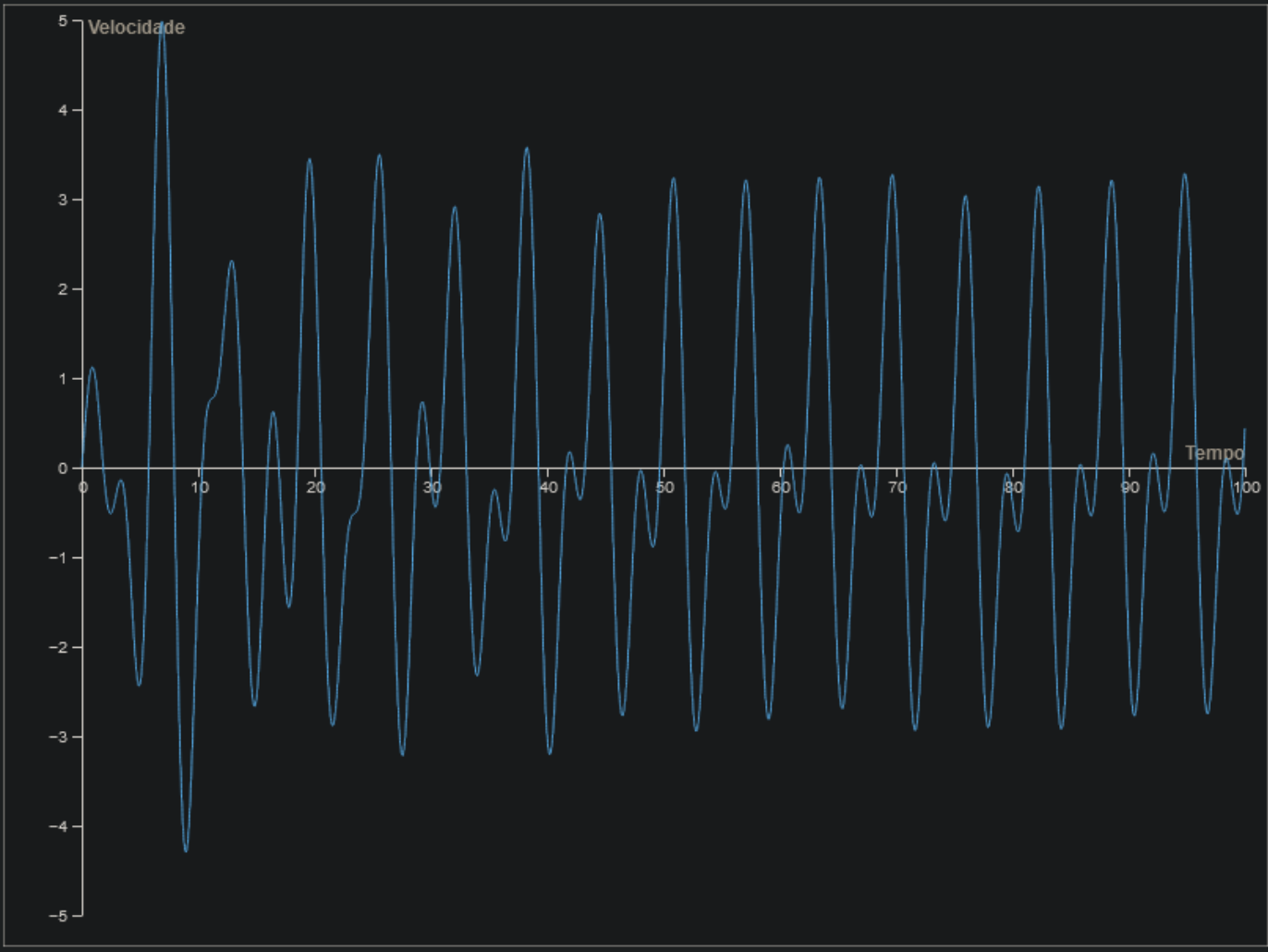
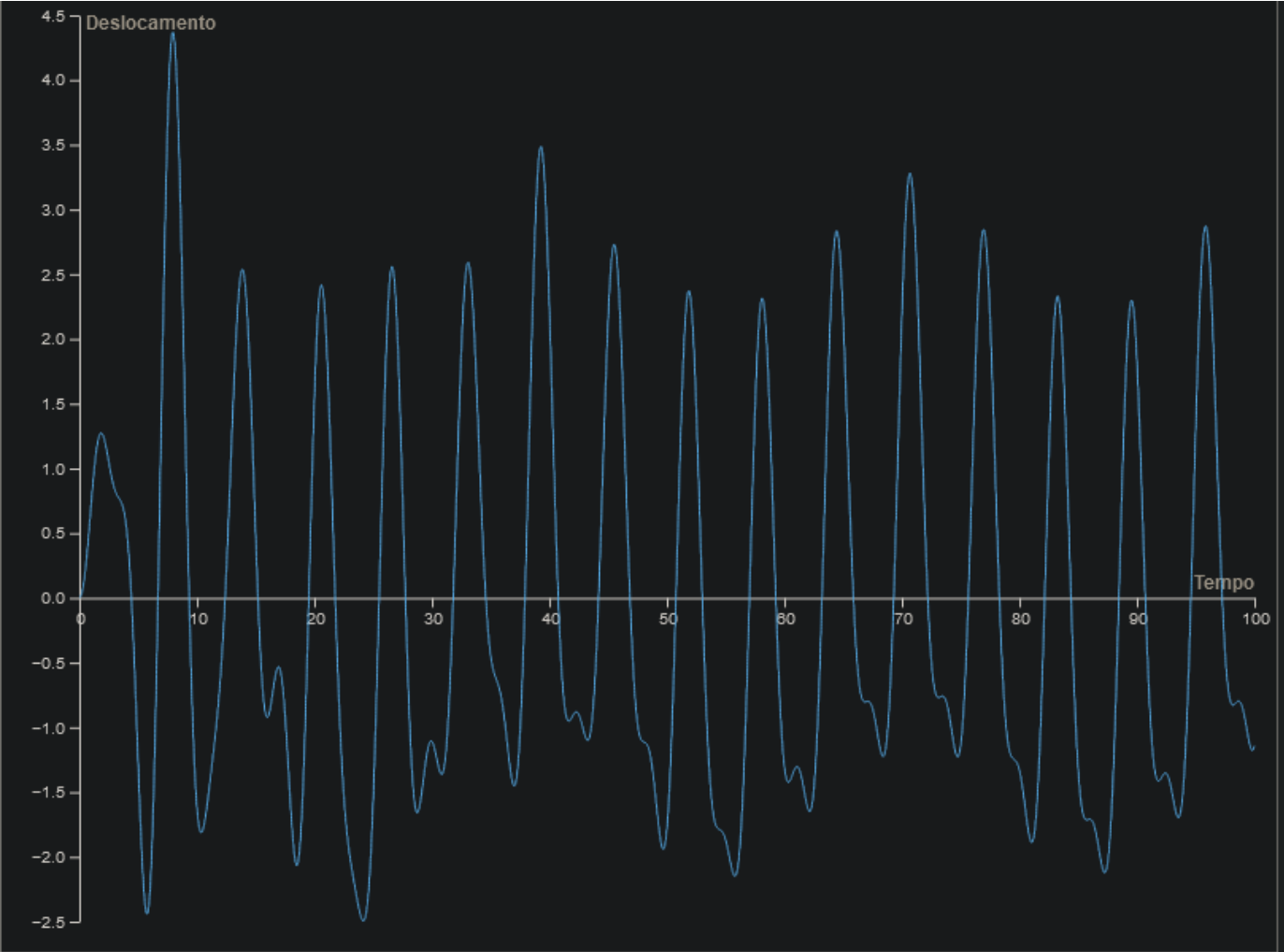
Saidas

```
newtown: 4.23510398933272  
biseçao Raiz: 4.235014678141322  
Gauss-Legendre: -6.126865171555712  
Quadratura Polinomial: -6.108648128546639  
Passo frente: Derivada DF: -1.3461776220113286  
Passo atrás: Derivada DF: -1.4411886581237976  
Passo central: Derivada DF: -1.393683140067563  
Derivada RE: -1.3967447260549726
```

Task 3

Entradas

```
w1 = 0.2    w2 = 1.0    w3 = 2.0  
m = 1      c = 0.1      k = 2      a1 = 1.0      a2 = 2.0      a3 = 1.5  
dt=0.1s T=100s
```



```
1  Tempo,Deslocamento,Velocidade,Acelerao
2  0.000000000000000000e+00,0.000000000000000000e+00,0.000000000000000000e+00,1.500
3  1.00000000000000000056e-01,7.803287945810269410e-03,1.586982622461217129e-01,1.658
4  2.000000000000000000111e-01,3.211020775452994025e-02,3.284964170271319484e-01,1.720
5  3.000000000000000000444e-01,7.355738572702699707e-02,4.999475119653706834e-01,1.690
6  4.000000000000000000222e-01,1.318497339799262480e-01,6.639318708326162888e-01,1.570
7  5.000000000000000000000e-01,2.058129866896956650e-01,8.120473907103182842e-01,1.370
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9  6.999999999999999556e-01,3.922285288333952069e-01,1.032679048622583862e+00,7.950
10 7.999999999999999334e-01,4.988961004473426719e-01,1.094810908101063074e+00,4.420
11 8.999999999999999112e-01,6.099783251018553454e-01,1.120675260176318577e+00,7.280
12 9.999999999999998890e-01,7.217892255037544613e-01,1.109386659868666136e+00,-2.90
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5/21

6/21

7/21

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17/21

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20/21

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968 9.65999999999878639e+01,1.714718258343617574e+00,-2.636606507696563462e+00,-1.3!
969 9.66999999999878071e+01,1.445731530659704278e+00,-2.731219699481996166e+00,-5.8!
970 9.67999999999877502e+01,1.170839348832766413e+00,-2.755041743462577575e+00,1.0!
971 9.68999999999876934e+01,8.969831788894266911e-01,-2.711215070675296879e+00,7.60!
972 9.69999999999876366e+01,6.306763584728005689e-01,-2.605124822037566013e+00,1.34!
973 9.70999999999875797e+01,3.777917197772636682e-01,-2.444147625799968360e+00,1.8!
974 9.71999999999875229e+01,1.433781582193492388e-01,-2.237325891145464762e+00,2.20!
975 9.72999999999874660e+01,-6.848704815574419014e-02,-1.994980930005295416e+00,2.3!
976 9.73999999999874092e+01,-2.548048189194738189e-01,-1.728280605339931775e+00,2.3!
977 9.749999999