Método secante para resolver ecuación x^3-x^2+0.1x+0.0625 = 0
Las tres raíces/soluciones están en el intervalo [-1,1]

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1.- Ejecutar el programa en python para tabular f(x) en el intervalo [-1,1] para así obtener valores iniciales para las tres soluciones.

```
-----------------------------------------
i                   x                 f(x)
1                  -1.0              -2.0375
2   -0.9591836734693877   -1.835932625861673
3   -0.9183673469387755   -1.647285038546864
4   -0.8775510204081632   -1.471149244787461
5   -0.8367346938775511   -1.307117251315353
6   -0.7959183673469388    -1.15478106486243
7   -0.7551020408163265   -1.013732692160579
8   -0.7142857142857143  -0.8835641399416909
9   -0.6734693877551021  -0.7638674149376538
10   -0.6326530612244898  -0.6542345238803561
11   -0.5918367346938775  -0.5542574735016872
12   -0.5510204081632654  -0.4635282705335363
13   -0.5102040816326531  -0.3816389217077918
14   -0.4693877551020409  -0.3081814337563432
15   -0.4285714285714286  -0.2427478134110788
16   -0.3877551020408164   -0.184930067403888
17   -0.3469387755102041  -0.1343202024666593
18   -0.3061224489795918-0.09051022533128203
19   -0.2653061224489797-0.05309214272964503
20   -0.2244897959183674-0.02165796139363703
21   -0.1836734693877552 0.004200311944852861
22   -0.1428571428571429 0.02489067055393584
23   -0.1020408163265307 0.04082110770172288
24 -0.06122448979591844 0.05239961665632516
25 -0.02040816326530615 0.06003419068585368
26  0.02040816326530615 0.06413282305841954
27  0.06122448979591821  0.0651035070421338
28   0.1020408163265305 0.06335423590510758
29   0.1428571428571428 0.05929300291545191
30   0.1836734693877551 0.05332780134127788
31   0.2244897959183672  0.0458666244506966
```

```
32    0.2653061224489794 0.03731746551181909
33    0.3061224489795917 0.02808831779275646
34     0.346938775510204 0.01858717456161976
35    0.3877551020408163 0.0092220290865200069
36    0.4285714285714284 0.0004008746355685516
37    0.4693877551020407-0.007468295523123836
38     0.510204081632653-0.01397748812144597
39    0.5510204081632653-0.01871870989128677
40    0.5918367346938773-0.02128396756453516
41    0.6326530612244896-0.02126526787308008
42    0.6734693877551019-0.01825461754881046
43    0.7142857142857142 -0.0118440233236152
44    0.7551020408163265-0.001625491929383174
45    0.7959183673469385 0.01280896990199656
46    0.8367346938775508 0.03186735543863527
47    0.8775510204081631 0.05595765794864377
48    0.9183673469387754 0.08548787070013342
49    0.9591836734693877   0.120865986961215
50                   1.0               0.1625
----------------------------------------------
```

2.- Seleccionar valores iniciales para cada una de las tres raíces en orden de arriba hacia abajo de los valores tabulados y ejecutar programa.

```
x0 = -0.3
x1 = -0.4
```

```
------------------------------------------------------------------------------------------------------------
'Secante'
------------------------------------------------------------------------------------------------------------
i    x0                  x2                  x1                  f(x0)               f(x2)               f(x1)               ERP
------------------------------------------------------------------------------------------------------------
0 -0.400000000000000 -0.227777777777778 -0.253985507246377 -0.201500000000000 -0.023978223593964 -0.043791447732406 36.503623188405790
1 -0.253985507246377 -0.213441187134017 -0.199348432301384 -0.043791447732406 -0.014125029200555 -0.005096707014987 21.511886854233818
2 -0.199348432301384 -0.192151868686083 -0.191100215884732 -0.005096707014987 -0.000732224258316 -0.000108158782511 4.137587801133226
3 -0.191100215884732 -0.190921382884842 -0.190917440618529 -0.000108158782511 -0.000002383179237 -0.000000052552831 0.095643673324392
4 -0.190917440618529 -0.190917351767427 -0.190917351724218 -0.000000052552831 -0.000000000025557 -0.000000000000012 0.000046561650061
5 -0.190917351724218 -0.190917351724197 -0.190917351724197 -0.000000000000012 0.000000000000000 0.000000000000000 0.000000000011020
6 -0.190917351724197 -0.190917351724197 -0.190917351724197 0.000000000000000 0.000000000000000 0.000000000000000 0.000000000000000
------------------------------------------------------------------------------------------------------------
resumen :
valor x2 =  -0.19091735172419738  valor f(x2)=     0.000000000000000 valor ERP =    0.000000000000000
```

```
x0 = 0.42
x1 = 0.38
```

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'Secante'
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i    x0                 x2                 x1                 f(x0)              f(x2)              f(x1)              ERP
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0 0.380000000000000 0.429963570127505 0.428377425044092 0.010972000000000 0.000114479437644 0.000440873863966 12.730901327392569
1 0.428377425044092 0.430402692050906 0.430515169472106 0.000440873863966 0.000024374413907 0.000001312809982 0.499032932884977
2 0.430515169472106 0.430521554141992 0.430521573410571 0.000001312809982 0.000000003961951 0.000000000011957 0.001487505880902
3 0.430521573410571 0.430521573468896 0.430521573468897 0.000000000011957 0.000000000000000 -0.000000000000000 0.000000013547769
4 0.430521573468897 0.430521573468897 0.430521573468897 -0.000000000000000 0.000000000000000 0.000000000000000 0.000000000000013
5 0.430521573468897 0.430521573468897 0.430521573468897 0.000000000000000 0.000000000000000 -0.000000000000000 0.000000000000013
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98 0.430521573468897 0.430521573468897 0.430521573468897 -0.000000000000000 0.000000000000000 0.000000000000000 0.000000000000013
99 0.430521573468897 0.430521573468897 0.430521573468897 0.000000000000000 0.000000000000000 -0.000000000000000 0.000000000000013
----------------------------------------------------------------------------------------------------------------
resumen :
valor x2 =  0.4305215734688965  valor f(x2)=     0.000000000000000 valor ERP =    0.000000000000013
```

```
x0 = 0.75
x1 = 0.71
```

```
----------------------------------------------------------------------------------------------------------------------------
'Secante'
----------------------------------------------------------------------------------------------------------------------------
i    x0                  x2                  x1                  f(x0)            f(x2)            f(x1)            ERP
----------------------------------------------------------------------------------------------------------------------------
0  0.710000000000000 0.763069845253032 0.775985439417577 -0.012689000000000 0.000848339181059 0.005207414147382 9.293723861630573
1  0.775985439417577 0.756785307597060 0.761295535547295 0.005207414147382 -0.001116361168591 0.000283394061450 1.893064370036103
2  0.761295535547295 0.760450081741774 0.760399063886207 0.000283394061450 0.000017044954177 0.000001031089698 0.117756064396689
3  0.760399063886207 0.760395790288791 0.760395778299373 0.000001031089698 0.000000003776274 0.000000000013831 0.000432087174906
4  0.760395778299373 0.760395778255301 0.760395778255301 0.000000000013831 0.000000000000000 -0.000000000000000 0.000000005796013
5  0.760395778255301 0.760395778255301 0.760395778255301 -0.000000000000000 0.000000000000000 0.000000000000000 0.000000000000015
6  0.760395778255301 0.760395778255301 0.760395778255301 0.000000000000000 -0.000000000000000 -0.000000000000000 0.000000000000015
7  0.760395778255301 0.760395778255301 0.760395778255301 -0.000000000000000 -0.000000000000000 0.000000000000000 0.000000000000015
8  0.760395778255301 0.760395778255301 0.760395778255301 0.000000000000000 -0.000000000000000 -0.000000000000000 0.000000000000015
9  0.760395778255301 0.760395778255301 0.760395778255301 -0.000000000000000 -0.000000000000000 0.000000000000000 0.000000000000015
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resumen :
valor x2 =  0.7603957782553008  valor f(x2)=   -0.000000000000000 valor ERP =   0.000000000000015
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Nota: Convertir/compilar este archivo a PDF y subirlo a la carpeta 1103 junto con los programas de tabular y el del método de la secante.
Vence 03/nov