## Ejercicio 1 x de 0-1.1812

| | x0 | 0 | | | | | |
|---|---|---|---|---|---|---|---|
| | **x** | 1.1812 | | | | | |
| | num_segmentos | 20 | | | | | |
| | dof | 10 | | | | | |
| | w | 0.05906 | w/3 | 0.0197 | | | |
| | | | | | | | |
| | x | f(x) = ... | | | | | |
| | | p1 | p2 | cons | f(X) | | |
| 0 | 0 | 1 | 1 | 0.389108384 | 0.389108384 | 1 | 0.007660247052 |
| 1 | 0.05906 | 1.000348808 | 0.9980837269 | 0.389108384 | 0.388362746 | 4 | 0.03058227171 |
| 2 | 0.11812 | 1.001395233 | 0.9923608919 | 0.389108384 | 0.386135943 | 2 | 0.01520345919 |
| 3 | 0.17718 | 1.003139275 | 0.9829087718 | 0.389108384 | 0.3824580438 | 4 | 0.03011729609 |
| 4 | 0.23624 | 1.005580934 | 0.969853937 | 0.389108384 | 0.3773782981 | 2 | 0.01485864152 |
| 5 | 0.2953 | 1.008720209 | 0.9533690098 | 0.389108384 | 0.3709638747 | 4 | 0.02921216859 |
| 6 | 0.35436 | 1.012557101 | 0.9336683128 | 0.389108384 | 0.3632981684 | 2 | 0.01430425988 |
| 7 | 0.41342 | 1.01709161 | 0.9110025777 | 0.389108384 | 0.3544787408 | 4 | 0.02791401924 |
| 8 | 0.47248 | 1.022323735 | 0.8856529203 | 0.389108384 | 0.3446149766 | 2 | 0.01356864034 |
| 9 | 0.53154 | 1.028253477 | 0.857924307 | 0.389108384 | 0.3338255407 | 4 | 0.02628764858 |
| 10 | 0.5906 | 1.034880836 | 0.8281387453 | 0.389108384 | 0.3222357289 | 2 | 0.01268749477 |
| 11 | 0.64966 | 1.042205812 | 0.796628431 | 0.389108384 | 0.3099748014 | 4 | 0.02440948236 |
| 12 | 0.70872 | 1.050228404 | 0.7637290694 | 0.389108384 | 0.297173384 | 2 | 0.01170070671 |
| 13 | 0.76778 | 1.058948613 | 0.7297735659 | 0.389108384 | 0.2839610129 | 4 | 0.02236098323 |
| 14 | 0.82684 | 1.068366439 | 0.6950862508 | 0.389108384 | 0.2704638878 | 2 | 0.01064906481 |
| 15 | 0.8859 | 1.078481881 | 0.6599777703 | 0.389108384 | 0.2568028837 | 4 | 0.02022237108 |
| 16 | 0.94496 | 1.08929494 | 0.6247407366 | 0.389108384 | 0.2430918584 | 2 | 0.009571336771 |
| 17 | 1.00402 | 1.100805616 | 0.589646193 | 0.389108384 | 0.2294362773 | 4 | 0.01806734205 |
| 18 | 1.06308 | 1.113013909 | 0.5549409163 | 0.389108384 | 0.2159321631 | 2 | 0.008501969036 |
| 19 | 1.12214 | 1.125919818 | 0.5208455415 | 0.389108384 | 0.202665367 | 4 | 0.0159592221 |
| 20 | 1.1812 | 1.139523344 | 0.4875534731 | 0.389108384 | 0.189711144 | 1 | 0.003734780055 |
| | | | | | | | |
| | | | | | | | 0.3675734052 |

```
dof =

    10

Enter lower limit a: 0
Enter upper limit b: 1.1812
Enter the  number of sub-intervals n: 20
x = 0.388363
x = 0.386136
x = 0.382458
x = 0.377378
x = 0.370964
x = 0.363298
x = 0.354479
x = 0.344615
x = 0.333826
x = 0.322236
x = 0.309975
x = 0.297173
x = 0.283961
x = 0.270464
x = 0.256803
x = 0.243092
x = 0.229436
x = 0.215932
x = 0.202665
x = 0.189711

 The value of integration is 0.367573>> |
```

## Ejercicio 2 x de 0-2.750

| | x0 | 0 | | | | | |
|---|---|---|---|---|---|---|---|
| | x | 2.7500 | | | | | |
| | num_segmentos | 20 | | | | | |
| | dof | 30 | | | | | |
| | w | 0.1375 | w/3 | 0.045833 | | | |

| | x | f(x) = ... | | | | | |
|---|---|---|---|---|---|---|---|
| | | p1 | p2 | cons | f(X) | | |
| 0 | 0 | 1 | 1 | 0.3956321849 | 0.3956321849 | 1 | 0.01813314181 |
| 1 | 0.1375 | 1.000630208 | 0.9902823718 | 0.3956321849 | 0.3917875784 | 4 | 0.07182772271 |
| 3 | 0.275 | 1.002520833 | 0.9617278668 | 0.3956321849 | 0.3804904972 | 2 | 0.03487829558 |
| 4 | 0.4125 | 1.005671875 | 0.9160670828 | 0.3956321849 | 0.3624256215 | 4 | 0.06644469727 |
| 5 | 0.55 | 1.010083333 | 0.855979413 | 0.3956321849 | 0.3386530054 | 2 | 0.03104319216 |
| 6 | 0.6875 | 1.015755208 | 0.7848191708 | 0.3956321849 | 0.3104997233 | 4 | 0.05692494927 |
| 7 | 0.825 | 1.0226875 | 0.7062920375 | 0.3956321849 | 0.279431862 | 2 | 0.02561458735 |
| 8 | 0.9625 | 1.030880208 | 0.6241268589 | 0.3956321849 | 0.2469246728 | 4 | 0.04526952335 |
| 9 | 1.1 | 1.040333333 | 0.5417838236 | 0.3956321849 | 0.2143471179 | 2 | 0.0196484858 |
| 10 | 1.2375 | 1.051046875 | 0.4622295199 | 0.3956321849 | 0.1828728749 | 4 | 0.03352669373 |
| 11 | 1.375 | 1.063020833 | 0.387795238 | 0.3956321849 | 0.1534242773 | 2 | 0.01406389209 |
| 12 | 1.5125 | 1.076255208 | 0.3201204175 | 0.3956321849 | 0.1266499402 | 4 | 0.0232191557 |
| 13 | 1.65 | 1.09075 | 0.2601711067 | 0.3956321849 | 0.1029320634 | 2 | 0.009435439143 |
| 14 | 1.7875 | 1.106505208 | 0.2083153781 | 0.3956321849 | 0.08241626818 | 4 | 0.01510964917 |
| 15 | 1.925 | 1.123520833 | 0.1644343275 | 0.3956321849 | 0.06505551225 | 2 | 0.005963421956 |
| 16 | 2.0625 | 1.141796875 | 0.1280480073 | 0.3956321849 | 0.0506599129 | 4 | 0.009287650698 |
| 17 | 2.2 | 1.161333333 | 0.09843922365 | 0.3956321849 | 0.03894572513 | 2 | 0.003570024804 |
| 18 | 2.3375 | 1.182130208 | 0.07476315318 | 0.3956321849 | 0.02957870964 | 4 | 0.005422763435 |
| 19 | 2.475 | 1.2041875 | 0.05613596875 | 0.3956321849 | 0.02220919597 | 2 | 0.002035842964 |
| 20 | 2.6125 | 1.227505208 | 0.0417002036 | 0.3956321849 | 0.01649794266 | 4 | 0.003024622821 |
| 21 | 2.75 | 1.252083333 | 0.03066795824 | 0.3956321849 | 0.01213323133 | 1 | 0.000556106435 |
| | | | | | | | 0.4949998582 |

```
dof =

    30

Enter lower limit a: 0
Enter upper limit b: 2.75
Enter the  number of sub-intervals n: 20
x = 0.391788
x = 0.380490
x = 0.362426
x = 0.338653
x = 0.310500
x = 0.279432
x = 0.246925
x = 0.214347
x = 0.182873
x = 0.153424
x = 0.126650
x = 0.102932
x = 0.082416
x = 0.065056
x = 0.050660
x = 0.038946
x = 0.029579
x = 0.022209
x = 0.016498
x = 0.012133

 The value of integration is 0.495000>>
```