

```
Editor - C:\Users\ivani\OneDrive\Documents\MATLAB\hw9.m
ass6.m  hw9.m  +
1      integrand=@(x) sin(10/x)*100/x;
2      exact= -18.79829683678703;
3      npairs=1:2;
4      npts=2*npairs+1;
5      G1=gauss2pts(integrand,1,3);
6      pdG1=100*abs((G1-exact)/exact);
7      disp([G1,pdG1]);
8
9
10     integrand=@(x) sin(10/x)*100/x;
11     exact= -18.79829683678703;
12     npairs=1:3;
13     npts=3*npairs+1;
14     G2=gauss3pts(integrand,1,3);
15     pdG2=100*abs((G2-exact)/exact);
16     disp([G2,pdG2]);
17
18
19     integrand=@(x) sin(10/x)*100/x;
20     exact= -18.79829683678703;
21     npairs=1:4;
22     npts=4*npairs+1;
23     G3=gauss4pts(integrand,1,3);
24     pdG3=100*abs((G3-exact)/exact);
25     disp([G3,pdG3]);
26
27
28     integrand=@(x) sin(10/x)*100/x;
29     exact= -18.79829683678703;
30     npairs=1:5;
31     npts=5*npairs+1;
32     G5=gauss5pts(integrand,1,3);
33     pdG5=100*abs((G5-exact)/exact);
34     disp([G5,pdG5]);
35
```

Command Window

New to MATLAB? See resources for [Getting Started](#).

```
>> hw9
    21.5897    214.8490

   -8.3311    55.6815

  -21.1645    12.5872

  -19.7722     5.1808
```

fx >>