```
Editor - C:\Users\ivani\OneDrive\Documents\MATLAB\ass5.m
   ass5.m × lec7.m × lec8.m × ctraprule.m × ass6.m × simprule.m × +
          integrand=@(x) (100 ./x) .* (sin(10 ./x));
  1
                                                                                                                                      exact=-18.79829683678703;
          x=linspace(1,3,10);
  4
          A=arbitary_spacing(x,integrand(x));
  5
          PD=100*abs((A-exact)/exact);
  6
          disp([A, exact, PD])
  8
          integrand=@(x) (100 ./x) .* (sin(10 ./x));
          exact=-18.79829683678703;
 10
          y=linspace(0,log(3),10);
 11
 12
          newx=exp(y);
 13
          A2 = arbitary_spacing(newx,integrand(newx));
 14
          PD2 = 100*abs((A2-exact)/exact);
 15
          disp([A2, exact, PD2])
 16
 17
          integrand=@(x) (100 ./x) .* (sin(10 ./x));
 18
 19
          exact=-18.79829683678703;
 20
          y=linspace(0,log(3),10);
 21
          xofy=exp(y);
 22
          A3=arbitary_spacing(y, xofy.*integrand(xofy));
 23
          PD3=100*abs((A3-exact)/exact);
 24
          disp([A3,exact, PD3])
                                                                                                                                      ♥
Command Window
                                                                                                                                       ×
New to MATLAB? See resources for Getting Started.
   >> ass5
     -22.7015 -18.7983
                                20.7638
     -19.6448 -18.7983
                                 4.5031
     -19.4646 -18.7983
                                 3.5445
fx >>
```

```
Editor - C:\Users\ivani\OneDrive\Documents\MATLAB\ass6.m
   ass5.m × lec7.m × lec8.m × ctraprule.m × ass6.m × simprule.m × +
         1
  2
  5
         integrand = @(x) \exp(-x^2);
  6
         exact = 0.882081;
         A = ctraprule(integrand,0,2,10);
         error = abs(A-exact);
         disp([A, exact, error])
xlabel('radius')
 10
         ylabel('abs(4x^2 . exp(-x^2) - 2exp(-x^2))')
                                                                                                                        ♥
Command Window
                                                                                                                         ×
New to MATLAB? See resources for Getting Started.
  >> ass6
       0.8818
                0.8821
                              0.0003
fx >>
```

