Editor - C:\Users\ivani\OneDrive\Documents\MATLAB\ass6.m

ass6.m ✕   hw9.m ✕   +

```
1    myf=@(x) abs((4.*x.^2) .* (exp(-x.^2)) - (2.*exp(-x.^2)));
2    fplot(myf,[0,2])
3
4
5    integrand = @(x) exp(-x^2);
6    exact = 0.882081;
7    A = ctraprule(integrand,0,2,10);
8    error = abs(A-exact);
9    absError = abs(((((2-0)^3/(12*(9^2)))))*2;
10   disp([A, exact, error, absError])
11   xlabel('radius')
12   ylabel('abs(4x^2 . exp(-x^2) - 2exp(-x^2))')
13
14
```

Command Window

New to MATLAB? See resources for Getting Started.

```
>> ass6
    0.8818      0.8821      0.0003      0.0165

fx >>
```

Figure 1   —   □   ✕

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