Table of Contents


```
%Workshop #4 - Cory Wolfe
```

Single application of Simpson's 1/3

```
x = 0:3:6;
y = x.^2;
I = (x(3)-x(1))/6*(y(1)+4*y(2)+y(3));
```

Applying function.

```
I_f = singleS13(x,y)

x1 = 0:3:6;
y1 = x1.^4;
I_f1 = singleS13(x1,y1)
```

```
I_f =

    72


I_f1 =

        1620
```

Summation Funtion

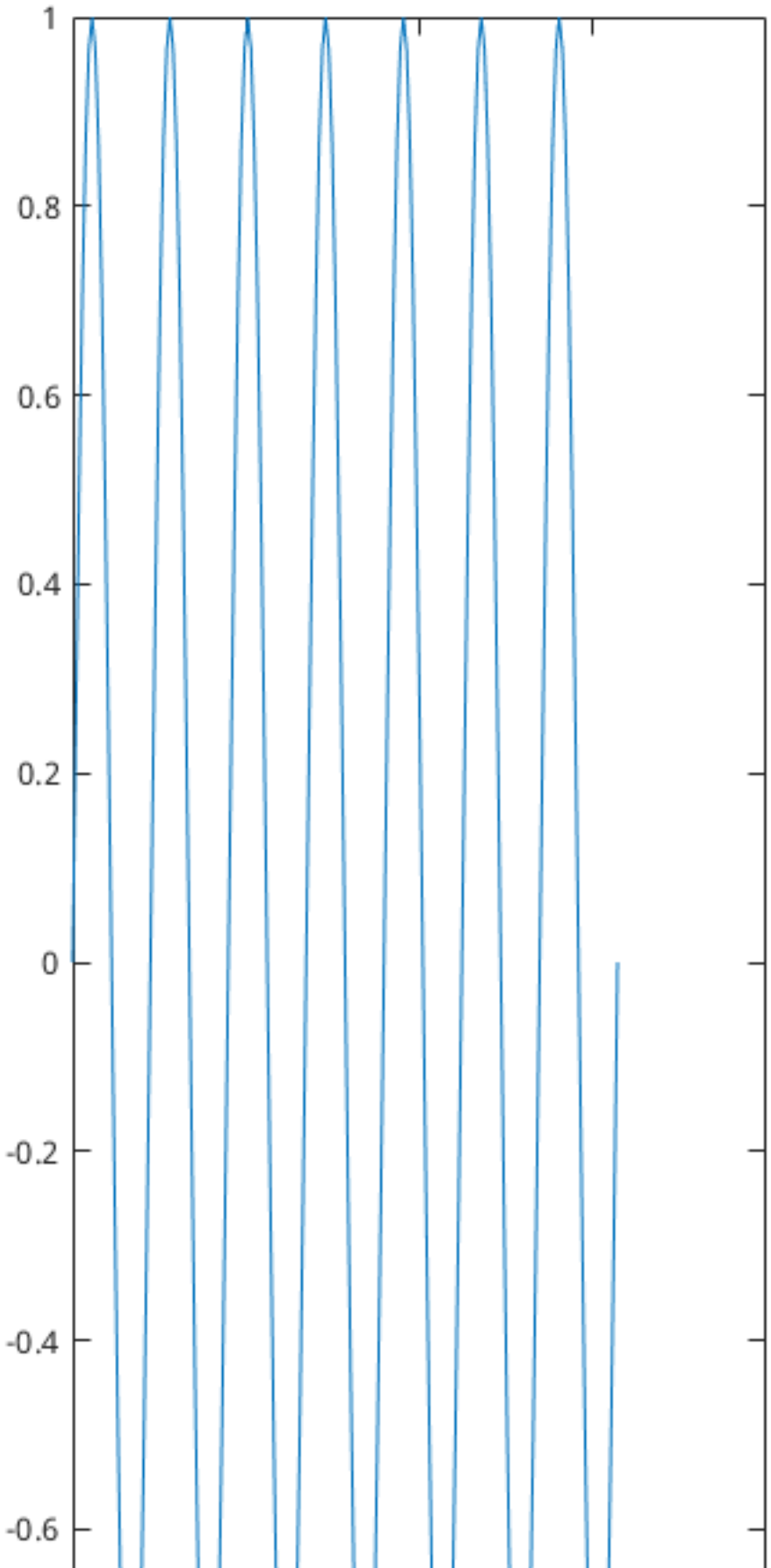
```
sumi2(3)
help sumi2
sumi2(3,2)
```

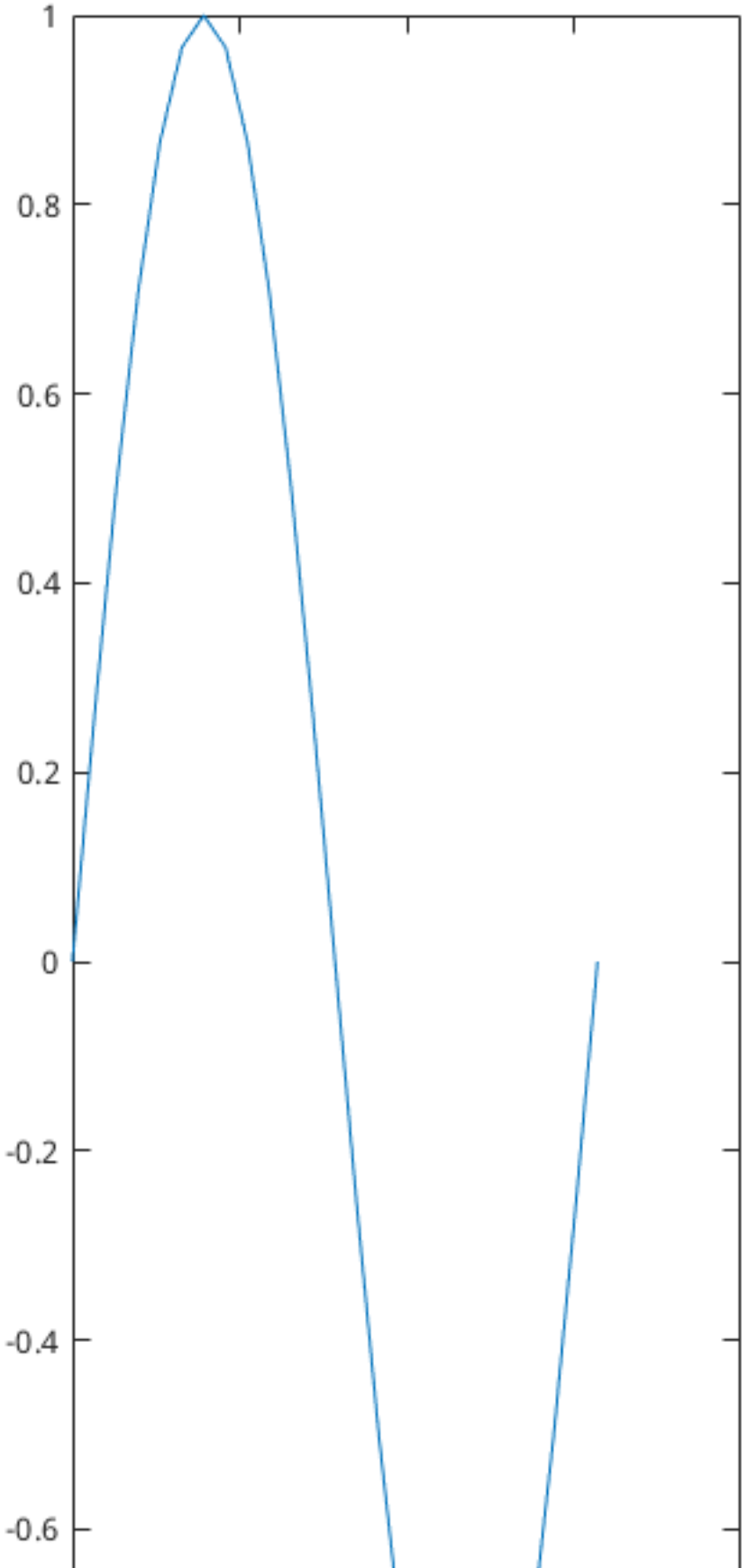
```
ans =

    14
```

```
 Computes the summation of i^2 from 1 to imax
  Inputs:
      imax = maximum
      istep = increment size (Default 1)
  Outputs:
      s = summation


ans =

    10
```

Plotting Function

```
figure(1)
plotsinmx(7)
figure(2)
plotsinmx()
```


1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6


1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6

Piecewise function

```
piecewise4(-5)
piecewise4(-.25)
piecewise4(1/3)
piecewise4(10)
```

```
ans =

     0


ans =

    0.7500


ans =

    0.6667


ans =

     0
```

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