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Publishing

```
% This is an example to illustrate how easy it is to create a document
% in the PUBLISH environment

clc
clear
close all
```

Initialization

Set the * radius *

```
r = 2;
```

Circle

This part calcuate the area for *Circle*

```
A = pi*r^2
C = 2*pi*r

A =
    12.5664
C =
    12.5664
```

Sphere

This part calcuate the area for *Sphere*

```
A2 = 4*pi*r^2
V = 4/3*pi*r^3

A2 =
    50.2655
V =
    33.5103
```
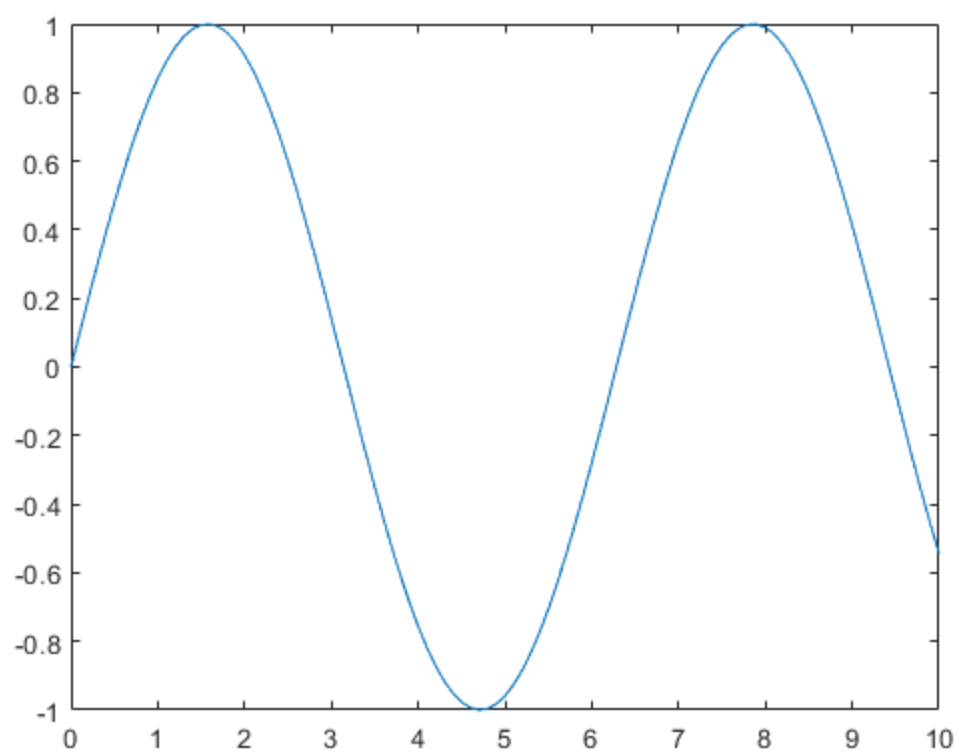
Plot

```
x = 0:0.1:10;
```

```
y = sin(x)
plot(x,y)
```

y =
  Columns 1 through 7
        0   0.0998   0.1987   0.2955   0.3894   0.4794   0.5646
  Columns 8 through 14
    0.6442   0.7174   0.7833   0.8415   0.8912   0.9320   0.9636
  Columns 15 through 21
    0.9854   0.9975   0.9996   0.9917   0.9738   0.9463   0.9093
  Columns 22 through 28
    0.8632   0.8085   0.7457   0.6755   0.5985   0.5155   0.4274
  Columns 29 through 35
    0.3350   0.2392   0.1411   0.0416   -0.0584   -0.1577   -0.2555
  Columns 36 through 42
   -0.3508   -0.4425   -0.5298   -0.6119   -0.6878   -0.7568   -0.8183
  Columns 43 through 49
   -0.8716   -0.9162   -0.9516   -0.9775   -0.9937   -0.9999   -0.9962
  Columns 50 through 56
   -0.9825   -0.9589   -0.9258   -0.8835   -0.8323   -0.7728   -0.7055
  Columns 57 through 63
   -0.6313   -0.5507   -0.4646   -0.3739   -0.2794   -0.1822   -0.0831
  Columns 64 through 70
    0.0168   0.1165   0.2151   0.3115   0.4048   0.4941   0.5784
  Columns 71 through 77
    0.6570   0.7290   0.7937   0.8504   0.8987   0.9380   0.9679
  Columns 78 through 84
    0.9882   0.9985   0.9989   0.9894   0.9699   0.9407   0.9022
  Columns 85 through 91
    0.8546   0.7985   0.7344   0.6630   0.5849   0.5010   0.4121
  Columns 92 through 98
    0.3191   0.2229   0.1245   0.0248   -0.0752   -0.1743   -0.2718
  Columns 99 through 101
   -0.3665   -0.4575   -0.5440

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