

## Contents

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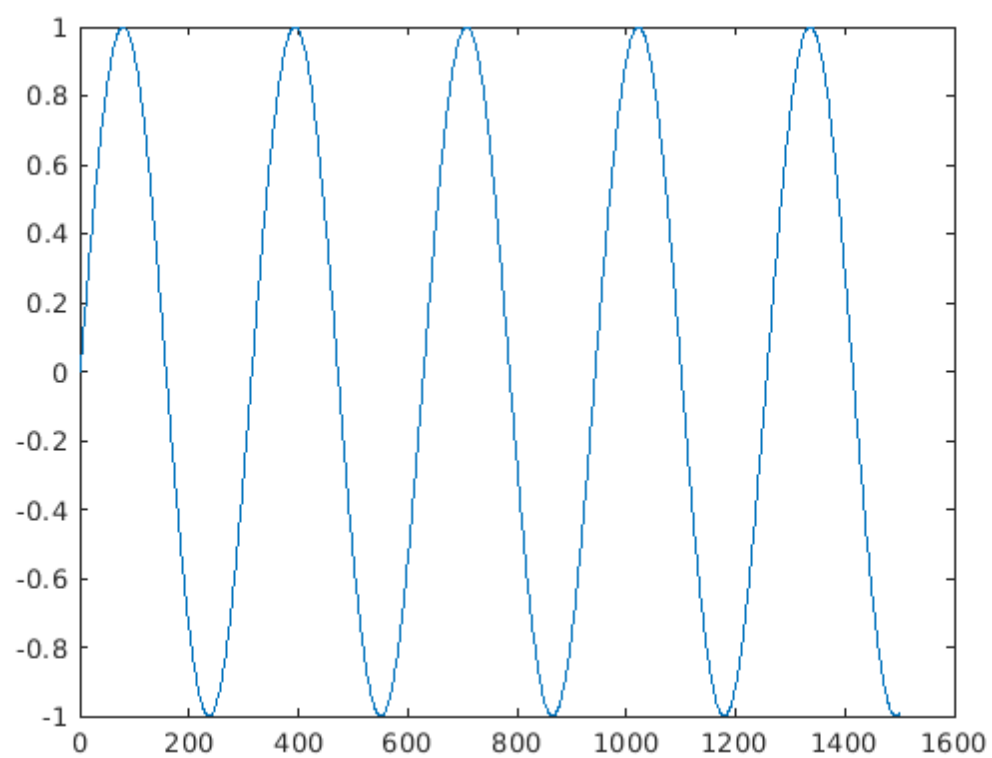
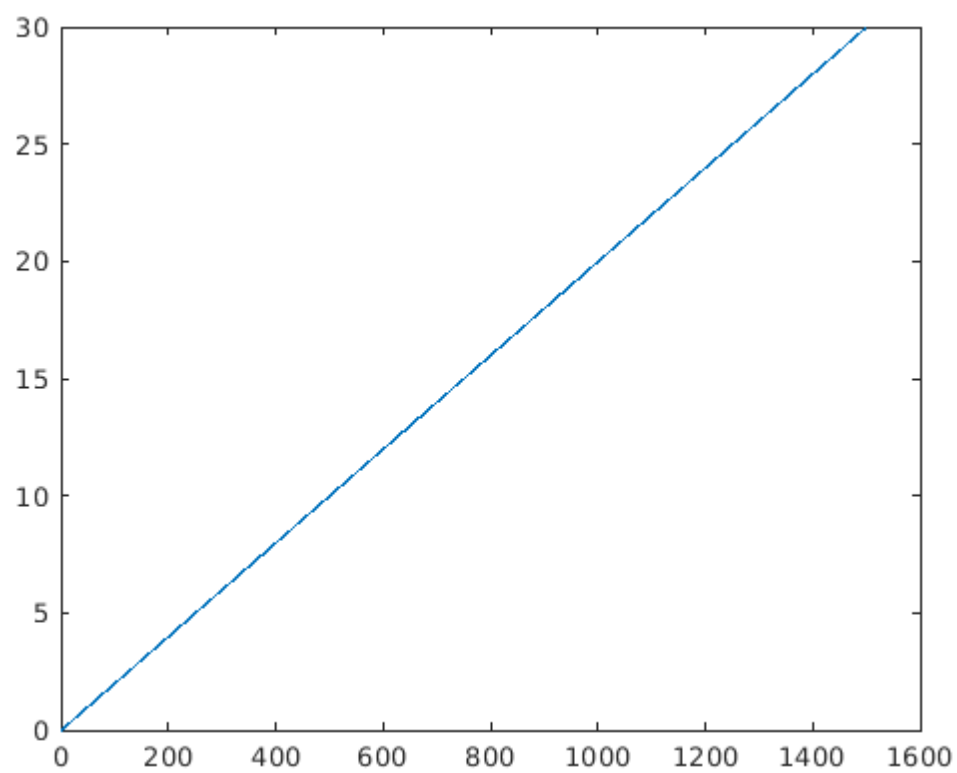
## Basic MATLAB Tutorial

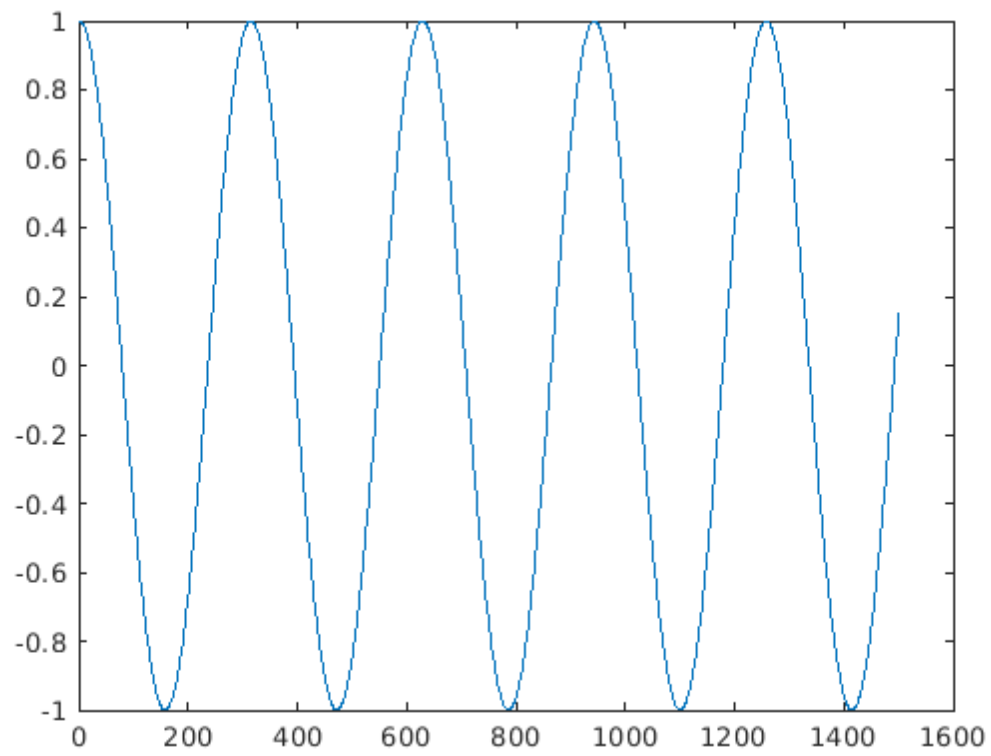
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### P1

---

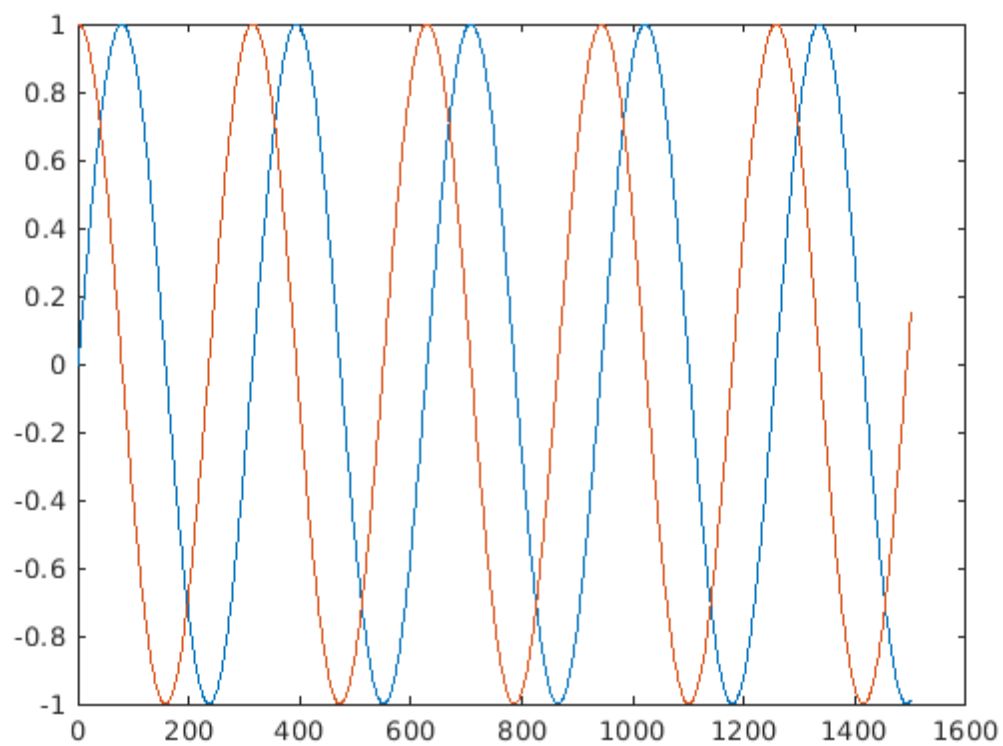
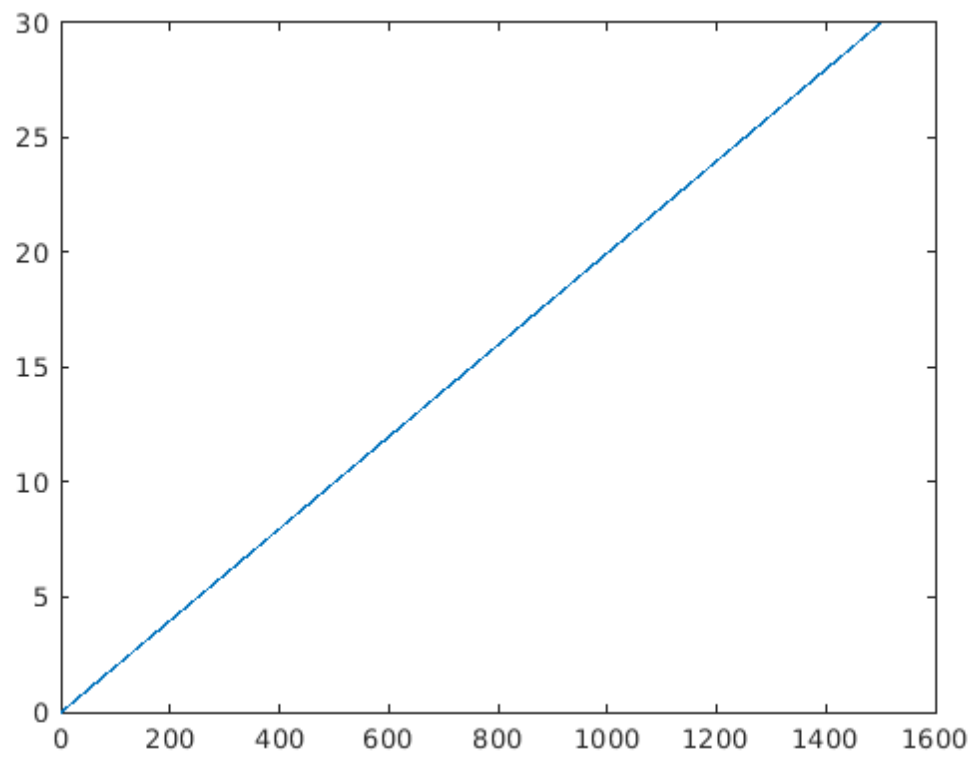
```
clc;clear all;close all;  
t=0:0.02:30;  
plot(t)  
figure  
a=sin(t);plot(a)  
figure  
b=cos(t);plot(b)
```





## P2

```
clc;clear all;close all;  
t=0:0.02:30;  
plot(t)  
figure  
a=sin(t);plot(a)  
hold on  
b=cos(t);plot(b)
```



### P3

```
clc;clear all;close all;
```

```
a=100;  
b=200;
```

```
c=a+b  
d=a-b
```

```
e=a*b
f=a/b
g=a\b
h=a^b

% P4
clc;clear all;close all;

a=100;
b=200;
v=3.4;
format short;
c=a*b^v
```

```
c =

    300
```

```
d =

   -100
```

```
e =

   20000
```

```
f =

    0.5000
```

```
g =

     2
```

```
h =

    Inf
```

```
c =

  6.6604e+09
```

## P5

---

```
clc;clear all;close all;

l = input("Enter the length: ");
w = input("Enter the width: ");
h = input("Enter the height: ");
vol=l*w*h;

fprintf("\nThe Volume is: %d\n", vol)
```

```
Error using input
Cannot call INPUT from EVALC.
```

```
Error in DAY1 (line 48)
l = input("Enter the length: ");
```

## P6

---

```
clc;clear all;close all;
A = [1 2 3; 4 5 6; 7 8 9]
A(:, :, 2) = [10 11 12; 13 14 15; 16 17 18]
B = cat(3,A,[3 2 1; 0 9 8; 5 3 7])
B(:, :, 4) = 0
```

## SpringDamp\_c.m

---

```
Kd=0.01;
Ks=0.02;
m=65;
```

## EMF\_a.m

---

```
R=1;
L=0.2;
Il=0.005;
Kb=0.22;
Kt=0.2;
```