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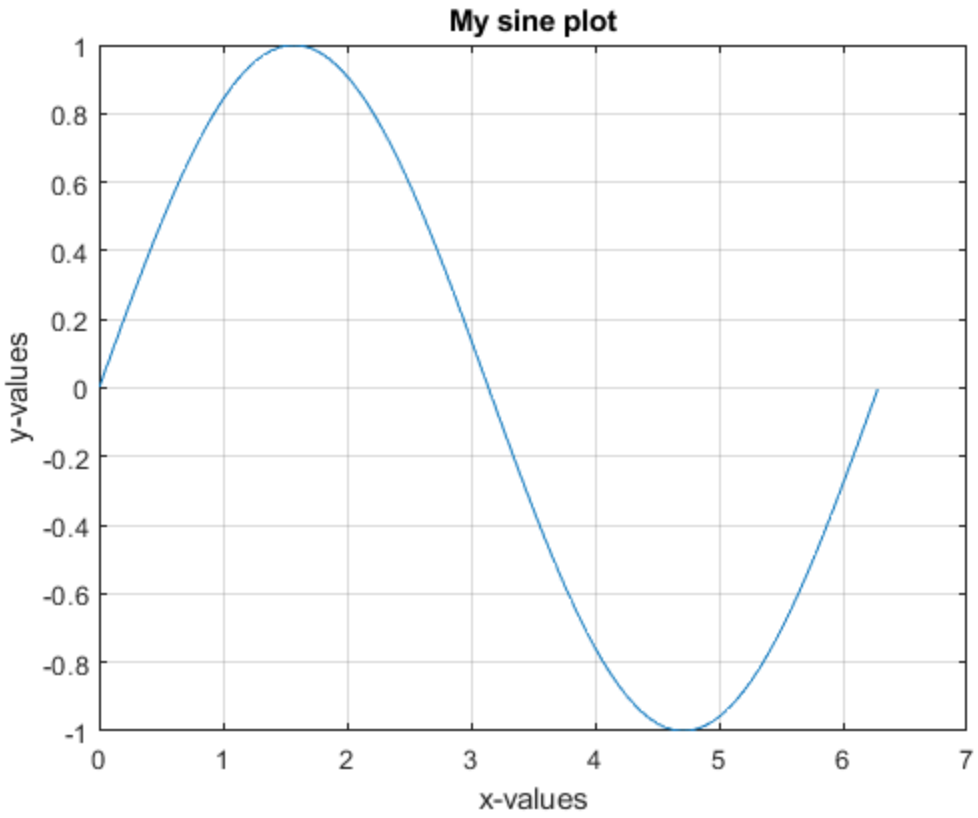
MATLAB PLOT EXAMPLLES

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

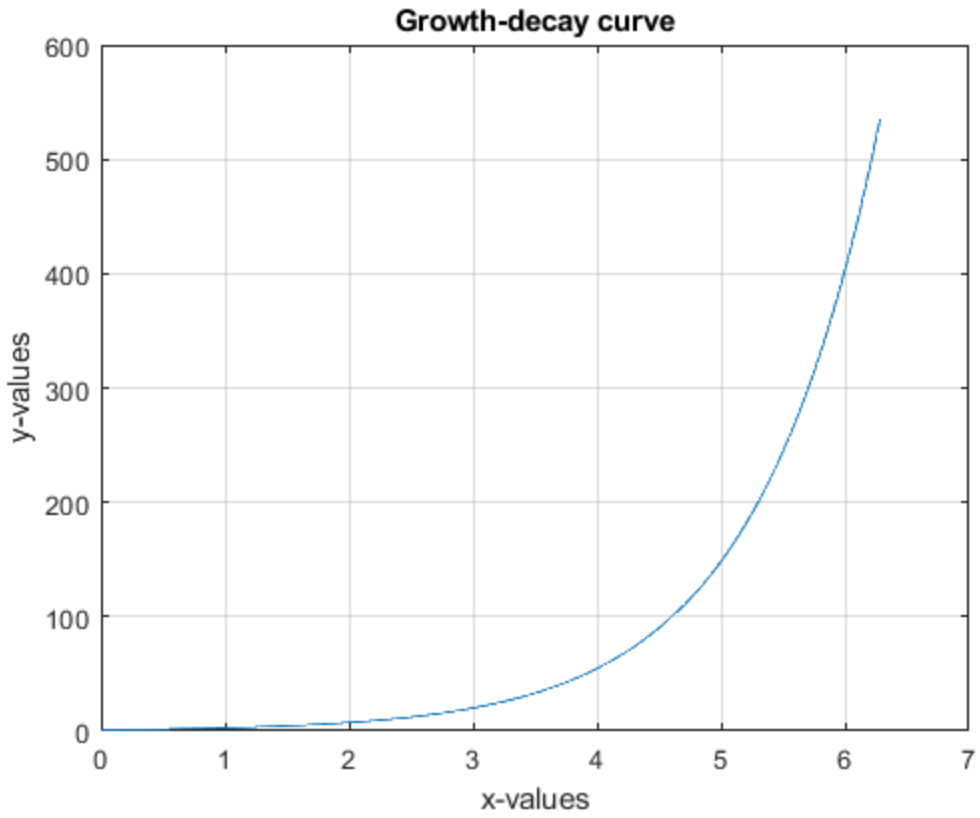
SIMPLE PLOT EXAMPLE

```
x=linspace(0,2*pi,100);
y=sin(x);
figure('Name','sine-wave','Numbertitle','off');
plot(x,y);
xlabel('x-values');
ylabel('y-values');
title('My sine plot');
grid on
```



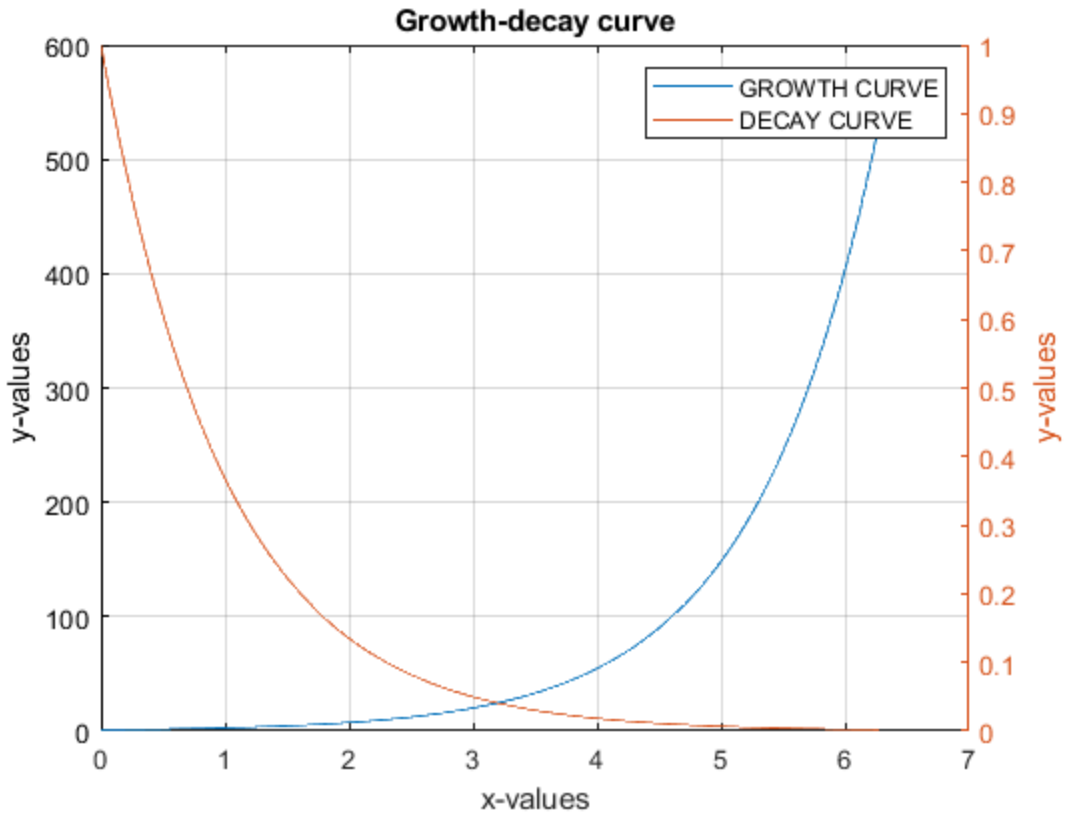
Exponential plot

```
x1=linspace(0,2*pi,1000);
y1=exp(x1);
figure('Name','Exponential plot','Numbertitle','off');
plot(x1,y1);
xlabel('x-values');
ylabel('y-values');
title('Growth-decay curve');
grid on
```



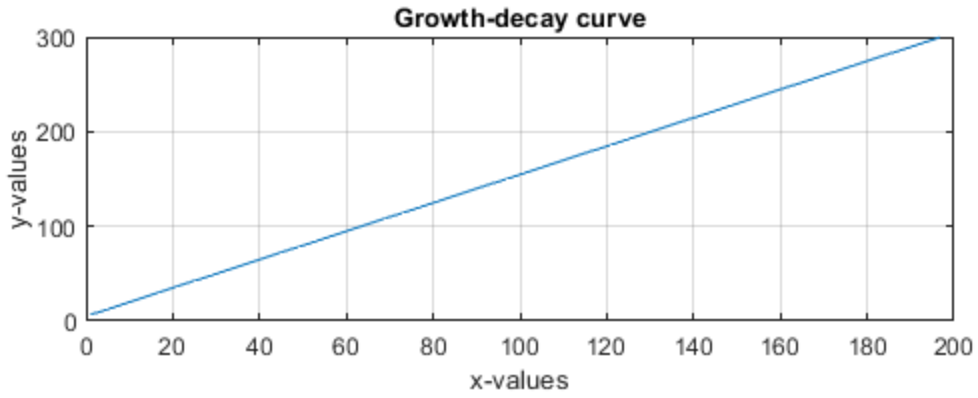
Learning to plot on same figure window

```
hold on
yyaxis right
y2=exp(-x1);
plot(x1,y2);
ylabel('y neg values')
c={'GROWTH CURVE','DECAY CURVE'};
xlabel('x-values');
ylabel('y-values');
title('Growth-decay curve');
grid on
legend(c,'location','northeast');
```



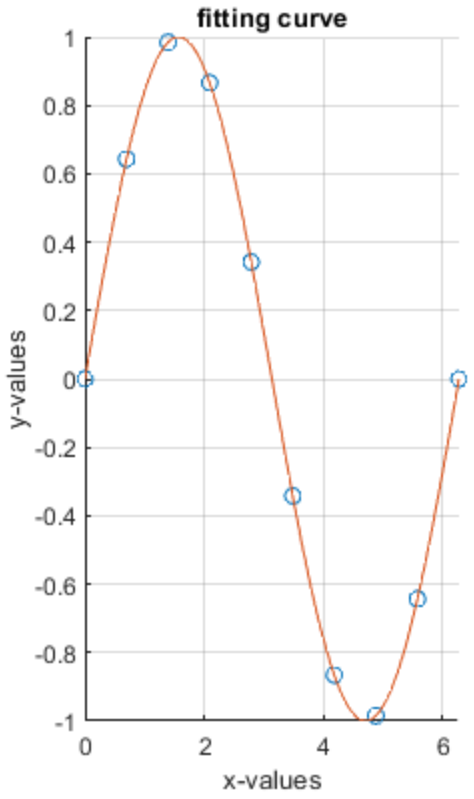
SUB-PLOT EXAMPLE

```
x2=1:4:200;
c=5;
m=1.5;
y3=m*x2+c;
figure('name','Algebric Equation','Numbertitle','off');
subplot(2,1,1);
plot(x2,y3);
xlabel('x-values');
ylabel('y-values');
title('Growth-decay curve');
grid on
```



second plot using subplot

```
subplot(1,2,1);
x3=linspace(0,2*pi,10);
y4=sin(x3);
p=polyfit(x3,y4,7);
x4=linspace(0,2*pi,100);
y5=polyval(p,x4);
scatter(x3,y4);
hold on
plot(x4,y5);
xlabel('x-values');
ylabel('y-values');
title('fitting curve');
grid on
```



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