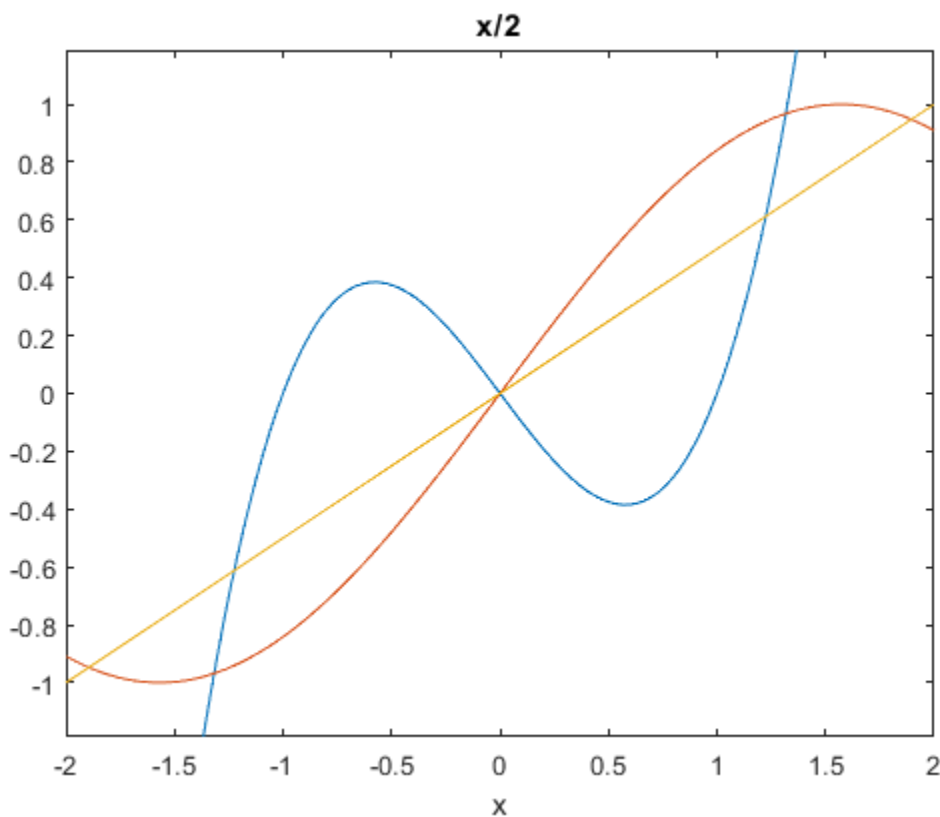

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```
ezplot('t^3-t',[-2,2])
hold on

syms x; ezplot(sin(x),[-2,2]);
hold on; ezplot(x/2,[-2,2]);
hold off

clear;
```



Double integrals

```
Func = @(x,y) (x + cos (y) + 1);
I = integral2 (Func, 0, 1, 0, 2);
```

Factors

```
syms x;  
factor(x^2-4)
```

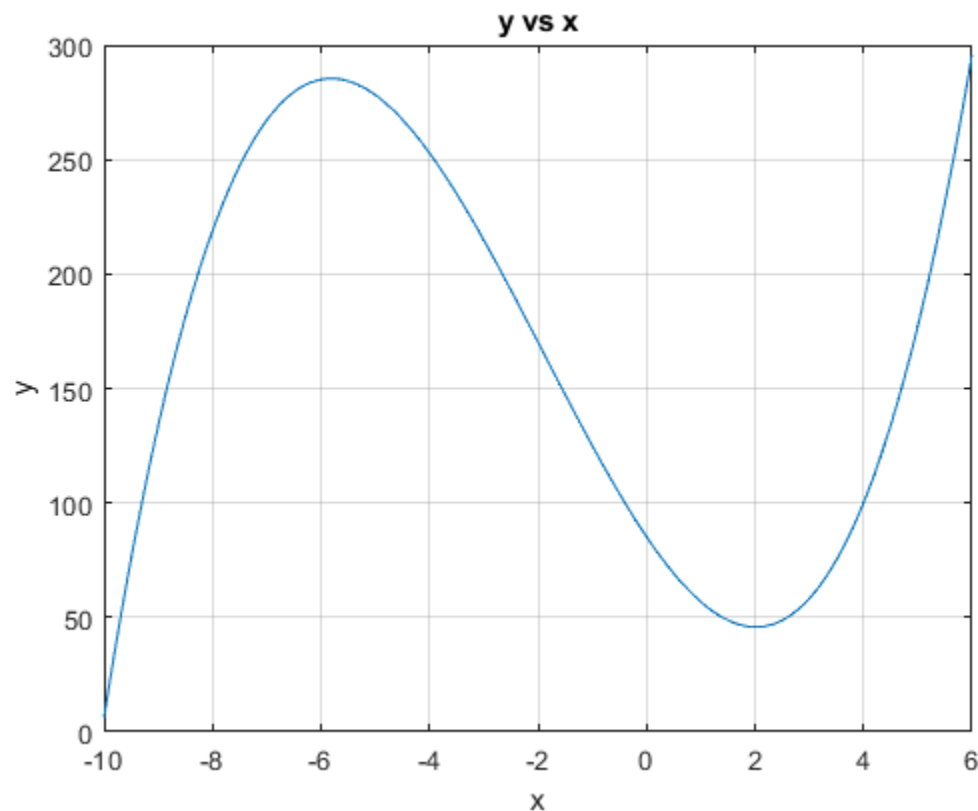
ans =

$[x - 2, x + 2]$

Max and Min

```
clc; clear;  
xf=-10:0.1:6;  
y=xf.^3 + 5.7*xf.^2 - 35.1*xf + 85.176;  
plot(xf,y), xlabel('x'),ylabel('y'), grid, title('y vs x');  
  
[xmin,ymin] = fminbnd( @(x) (x^3+5.7*x^2-35.1*x+85.176),-10,6 );  
fprintf('xmin=%7.3f ymin=%9.3f \n',xmin,ymin)  
[xmax,ymax] = fminbnd( @(x) (x^-1),-10,6); Ymax=-ymax;  
fprintf('xmax=%7.3f Ymax=%9.3f \n',xmax,Ymax);
```

```
xmin= 2.013 ymin= 45.774  
xmax= -0.000 Ymax=930248.999
```



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