

# Basic graphic applications

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### Ex. 1: Basic operations: Draw a curve

```
a = [0:0.5:5];  
b = 2 * a.^2 + 3 * a - 5;  
plot(a,b)
```

### Ex. 2: Refine the plot: Line pattern, color, and thickness

```
a = [0:0.5:5];  
b = 2 * a.^2 + 3 * a - 5;  
plot(a,b, '-or', 'MarkerFaceColor','g','LineWidth',2)  
xlabel('X'); ylabel('Y'); legend('Test','Location','NorthWest')
```

### Ex. 3: Draw symbols

```
a = [0:0.5:5];  
b = 2 * a.^2 + 3 * a - 5;  
c = 1.2 * a.^2 + 4 * a - 3;  
hold on  
plot(a,b,'or','MarkerFaceColor','g','LineWidth',2)  
plot(a,c,'ok','MarkerFaceColor','c','LineWidth',2)  
xlabel('X'); ylabel('Y'); legend('Curve 1','Curve 2','Location','NorthWest')
```

### Ex. 4: Plot with multiple panels

```
a = [0:0.5:5];  
b = 2 * a.^2 + 3 * a - 5;  
c = 1.2 * a.^2 + 4 * a - 3;  
subplot(1,2,1)  
plot(a,b, '-or', 'MarkerFaceColor','g','LineWidth',2)  
xlabel('X'); ylabel('Y'); legend('Curve 1','Location','NorthWest')  
subplot(1,2,2)  
plot(a,c, '--ok', 'MarkerFaceColor','c','LineWidth',2)  
xlabel('X'); ylabel('Y'); legend('Curve 2','Location','NorthWest')
```

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