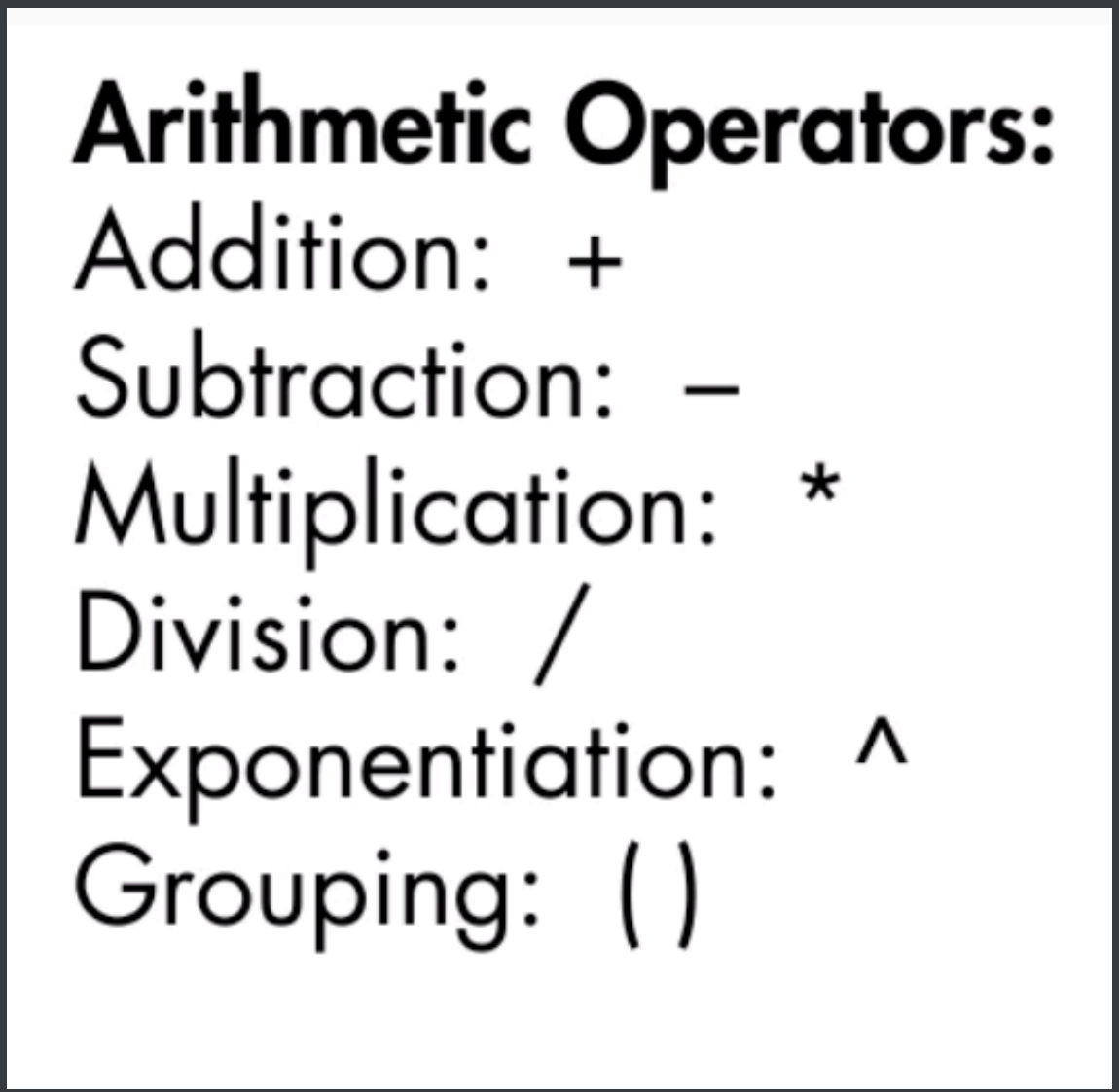
Matlab

"%" represents the comments

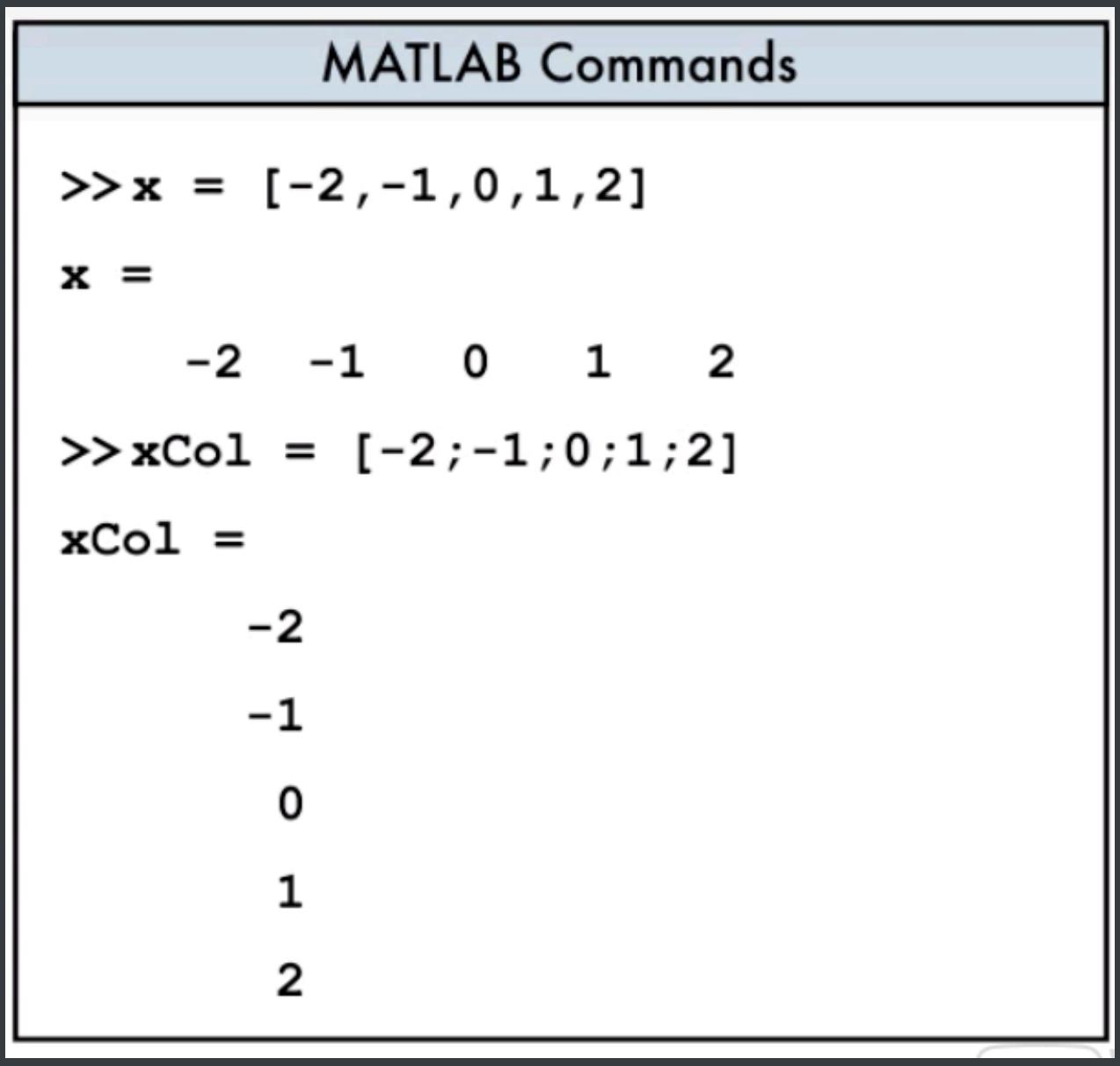
";" prevents output from being displayed



Use plot(x,y)

and array x=[10,3,5,7] y=[5,3,2,4]

to draw a graph(a line made up by points) with the given data

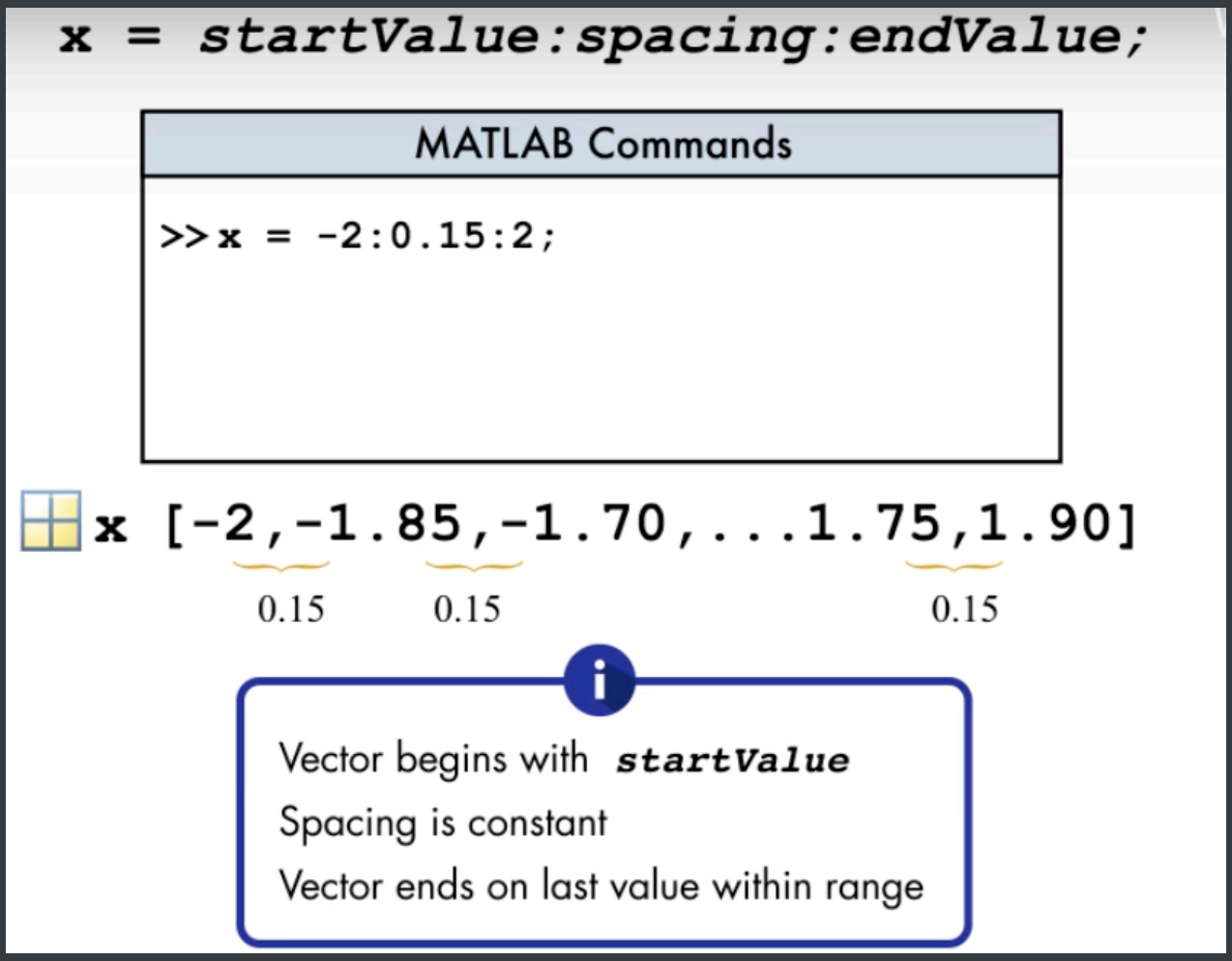


While working on vectors

"," are used to separate row values

";" are used to separate column values

x= startValue:spacing:endValue; — is used to represent a vector start with "startValue" and end with "endValue" spacing is the "spacing"



if spacing is "1" then the middle parameter can be omit

the following pic shows how to represent a column vector

MATLAB Commands

```
>> x = (-2:2)';
```

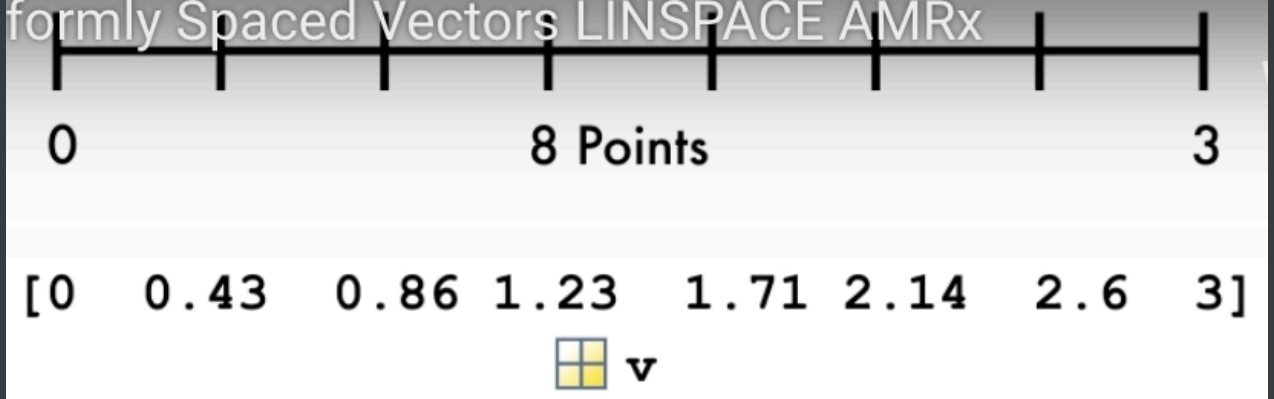
x

$$\begin{bmatrix} -2 \\ -1 \\ 0 \\ 1 \\ 2 \end{bmatrix}$$

5-by-1 column vector

Function linspace() can be used to get a few sample points from a sequence(range)

formly Spaced Vectors LINSPACE AMRx




```
[0   0.43   0.86 1.23   1.71 2.14   2.6   3]
```

v

MATLAB Commands

```
>>v = linspace(0,3,8)
```

Matrices

MATLAB Commands

```
>>M = [1, 2, 3; 4, 5, 6]
```

M

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$$