```
clc
clear clf
close all
x = [1, 2, 3]
y = [1;2;3]
A = x * y % this is inner product
B = y * x % but this is outer product
B .^ 3 % this gives element wise multiplication
sin(cos(B)) % function composition is intuitive
x(1,3) % one based indexing, returns 3
x(1:3) = 10 % can assign to slices, gives 10 10 10
(3:5)' % can use operations on intermediate expressions like the following
x =
         2 3
     1
y =
     1
     2
     3
A =
    14
B =
     1
                 3
           2
     2
           4
                 6
     3
           6
ans =
    1
           8
                27
    8
          64
               216
    27
         216
               729
ans =
```

1

0.5144 -0.4042 -0.8360 -0.4042 -0.6081 0.8193 -0.8360 0.8193 -0.7902 ans =

3

x =

10 10 10

ans =

3
4

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