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%Vitor Cavalcante%

%Lecture 2 - Matlab Fundamentals%

%Scalars examples%
r = 6
height = 5.3
width = 9.07

%Vector Examples%
h = [1, 2, 3] %Columns are separated by commas

v = [1; 2; 3] %Rows separated by semicolons

%Matrix Example%
m = [3.0, 1.8, 3.6; 4.6, -2.0, 21.3; 0.0, -6.1, 12.8; 2.3, 0.3, -6.1]

%each item is located i the (row, column) format
m(2,3)

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% Exercise 1 %

a = 1

b = [1, 0 ,2]
c = [1 0 2]

d = [5, 4, 3; 0, 2, 8]

whiteRabbit = [-7, 21, 6; 2, 32 , 0; -5, 0, -18.5]

% Exercise 2 %
clear; clc

a = [10, 5, 5; 2, 9, 0; 6, 8 8]
b = [1, 0, 2; 0, 0, 0; 1, 1, 0]

a .* b

% Exerceises 3 %
clear; clc

w = [1:5; 10:2:18; 6:-1:2]

x = [1.2:1.1:5.6; 1.9:1.9:9.5; 0:-3:-12]

y = x'
z = y(2,:)
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r =

6

height =

5.3000

width =

9.0700

h =

1 2 3

v =

1
2
3

m =

3.0000	1.8000	3.6000
4.6000	-2.0000	21.3000
0	-6.1000	12.8000
2.3000	0.3000	-6.1000

ans =

21.3000

a =

1

b =

1 0 2

c =

1 0 2

$d =$

5	4	3
0	2	8

`whiteRabbit =`

-7.0000	21.0000	6.0000
2.0000	32.0000	0
-5.0000	0	-18.5000

$a =$

10	5	5
2	9	0
6	8	8

$b =$

1	0	2
0	0	0
1	1	0

`ans =`

10	0	10
0	0	0
6	8	0

$w =$

1	2	3	4	5
10	12	14	16	18
6	5	4	3	2

$x =$

1.2000	2.3000	3.4000	4.5000	5.6000
1.9000	3.8000	5.7000	7.6000	9.5000
0	-3.0000	-6.0000	-9.0000	-12.0000

$y =$

1.2000	1.9000	0
2.3000	3.8000	-3.0000
3.4000	5.7000	-6.0000

4.5000	7.6000	-9.0000
5.6000	9.5000	-12.0000

$z =$

2.3000	3.8000	-3.0000
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