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181ENG041013

MATH H/W

MATCAD

$$A := \begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{bmatrix}$$

$$B := \begin{bmatrix} 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{bmatrix}$$

$X = \text{stack}(A, B)$

$Y = \text{augment}(A, B)$

$$X = \begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \\ 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{bmatrix}$$

$$Y = \begin{bmatrix} 1 & 4 & 7 & 10 & 13 & 16 \\ 2 & 5 & 8 & 11 & 14 & 17 \\ 3 & 6 & 9 & 12 & 15 & 18 \end{bmatrix}$$

MATLAB

command window

clear

clc

$$A = [1 \ 4 \ 7; 2 \ 5 \ 8; 3 \ 6 \ 9]$$

$$B = [10 \ 13 \ 16; 11 \ 14 \ 17; 12 \ 15 \ 18]$$

$$X = [A; B]$$

$$Y = [A, B]$$

or - C:\Users\domin\Documents\MATLAB\assignment3.m

```
commandwindow
```

```
clear
```

```
clc
```

```
A=[1 4 7; 2 5 8; 3 6 9 ]
```

```
B=[10 13 16; 11 14 17; 12 15 18]
```

```
X=[A;B]
```

```
Y=[A,B]
```

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C: > Users > domin > Documents > MATLAB

Command Window

```
1      4      7
2      5      8
3      6      9
```

B =

```
10     13     16
11     14     17
12     15     18
```

X =

```
1      4      7
2      5      8
3      6      9
10     13     16
11     14     17
12     15     18
```

Y =

```
1      4      7     10     13     16
2      5      8     11     14     17
3      6      9     12     15     18
```

fx >>

Ready

$$A := \begin{pmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{pmatrix}$$

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