

CHIMA wisdom ENYICHE  
18 / ENG04 / 025  
Elect / Elect  
ENG 282

9 ~~Equations~~ mathcad worksheet

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

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

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

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

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

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

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

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

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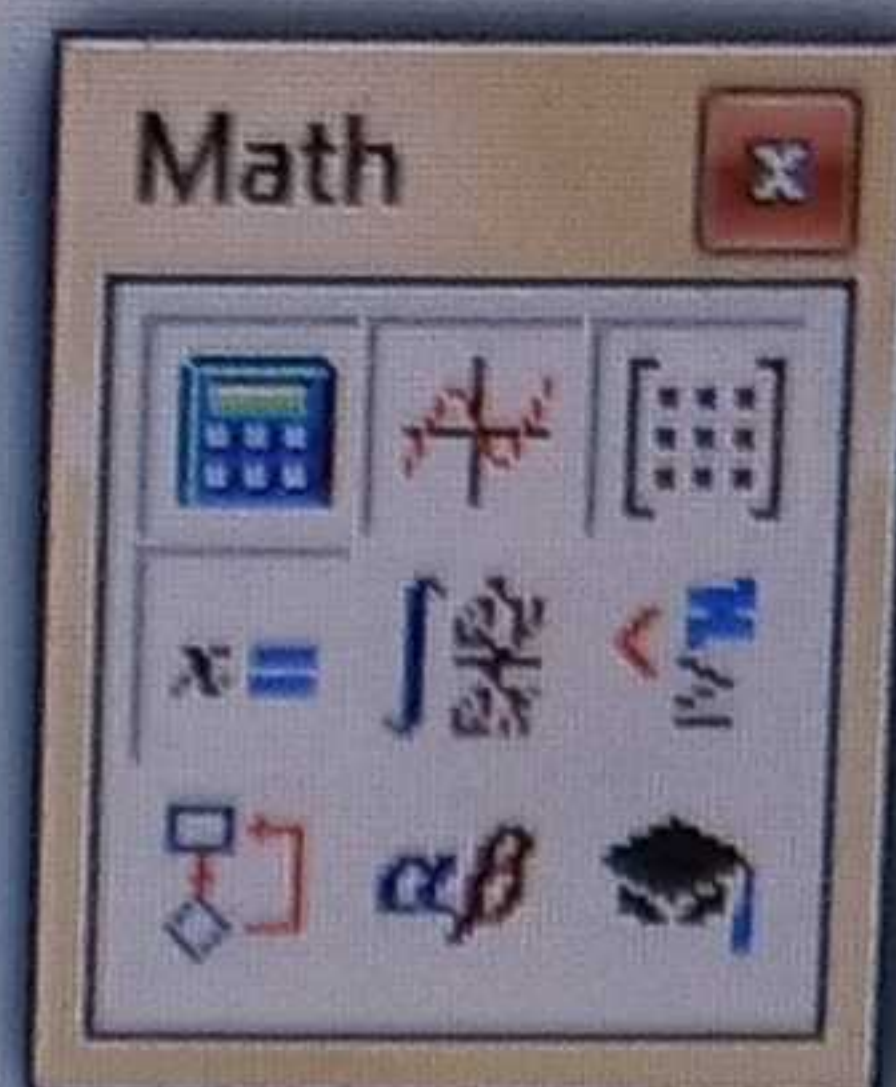
$$B = \begin{pmatrix} 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{pmatrix}$$

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

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

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

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



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]

Ans

a =

1	4	7
2	5	8
3	6	9

b =

10	13	16
11	14	17
12	15	18

~~x = [a; b]~~

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



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

```
a =
```

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

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

```
b =
```

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

```
>> x=[a ; b]
```

```
x =
```

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

```
>> y=[a b]
```

```
y =
```

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

```
>>
```