
MATLAB example: matrixOps.m

A =

5	3	2
4	6	1

B =

1	1
1	1
1	1

Z =

0	0	0
0	0	0
0	0	0

identity =

1	0	0
0	1	0
0	0	1

doubleA =

10	6	4
8	12	2

doubleB =

2	2
2	2
2	2

transB =

1	1	1
1	1	1

B =

6	5
4	7

```
3 2
```

```
prodAB =
```

```
48 50
51 64
```

```
prodBA =
```

```
50 48 17
48 54 15
23 21 8
```

```
AtimesB =
```

```
5 3 2
4 6 1
```

```
AdivB =
```

```
5 3 2
4 6 1
```

```
C =
```

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

```
determinantC =
```

```
321
```

```
inverseC =
```

```
0.15887850467290 -0.13084112149533 -0.00934579439252
-0.04672897196262 0.21495327102804 -0.05607476635514
-0.01246105919003 -0.00934579439252 0.11838006230530
```

```
D =
```

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

```
reduceD =
```

```
1.0000000000000000      0      0 -0.05607476635514
      0 1.0000000000000000      0 0.66355140186916
      0      0 1.0000000000000000 0.04361370716511
```

```
>>
```