

```
>> syms x y z t
>> x=-1:.4:8; y=-6:.4:1;
>> [X,Y]=meshgrid(x,y);
>> f=inline('3*x+2*y-4','x','y');
>> Z1=f(X,Y);
>> surf(X,Y,Z1)
>> hold on
>> g=inline('10-x+2*y','x','y');
>> Z2=g(X,Y);
>> surf(X,Y,Z2)
>> h=inline('(x+y-8)/3','x','y');
>> Z3=h(X,Y);
>> surf(X,Y,Z3)
>> hold off
>>
```

```
>> A=[2 0 -1;1, 2 7;3 -3 1]
```

```
A =
```

```
2 0 -1
1 2 7
3 -3 1
```

```
>> B=[4 1 1;2 -1 3;0 -2 5]
```

```
B =
```

```
4 1 1
2 -1 3
0 -2 5
```

```
>> Y=[2;3;9]
```

```
Y =
```

```
2
3
9
```

```
>> Z=[1 2 -4]
```

```
Z =
```

```
1 2 -4
```

```
>> A+B
```

ans =

```
6  1  0
3  1 10
3 -5  6
```

>> 2*A-3*B

ans =

```
-8 -3 -5
-4  7  5
 6  0 -13
```

>> A*Y

ans =

```
-5
71
 6
```

>> Z*B

ans =

```
8  7 -13
```

>> A^2

ans =

```
1  3 -3
25 -17 20
 6 -9 -23
```

>> A*B

ans =

```
8  4 -3
8 -15 42
 6  4 -1
```

>> A'

ans =

$$\begin{pmatrix} 2 & 1 & 3 \\ 0 & 2 & -3 \\ -1 & 7 & 1 \end{pmatrix}$$

>>