

```
octave:3> a = [2 2 -1 0 1; -1 -1 2 -3 1; 1 1 -2 0 -1; 0 0 1 1 1]
```

```
a =
```

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

```
octave:4> rref(a)
```

```
ans =
```

```
1 1 0 0 1      x1 + x2 + x5 = 0  
0 0 1 0 1      x3 + x5 = 0  
0 0 0 1 -0    x4 = 0  
0 0 0 0 0
```

```
x x x x x  
1 2 3 4 5  
| |  
s t
```

rref ==> reduced row echelon form

```
x1 + x2 + x5 = 0      x1 + s + t = 0  
x3 + x5 = 0            x3 + t = 0  
x4 = 0
```

leading variable

free variables ==> parameters like s, t, u