**rref(a):=block([p,q,k],[p,q]:matrix\_size(a),a:echelon(a),**

**k:min(p,q),**

**for i thru min(p,q) do (if a[i,i]=0 then (k:i-1,return())),**

**for i:k thru 2 step -1 do (for j from i-1 thru 1 step -1 do a:rowop(a,j,i,a[j,i])),**

**a)$**

a: matrix([12,-27,36,44,59],

[26,41,-54,24,23],

[33,70,59,15,-68],

[43,16,29,-52,-61],

[-43,20,71,88,11])$

rref(a);