**Sıfır uzayı için taban bulma algoritması örneği.**

>> A

A =

1 0 2 -8 5 -3

-2 2 -4 18 -12 5

5 -2 10 -5 7 -18

9 -2 22 -6 3 2

>> (2,:)=A(2,:)+2\*A(1,:)

=

1 0 2 -8 5 -3

0 2 0 2 -2 -1

5 -2 10 -5 7 -18

9 -2 22 -6 3 2

>> (3,:)= (3,:)-5\* (1,:)

=

1 0 2 -8 5 -3

0 2 0 2 -2 -1

0 -2 0 35 -18 -3

9 -2 22 -6 3 2

>> (4,:)= (4,:)-9\* (1,:)

=

1 0 2 -8 5 -3

0 2 0 2 -2 -1

0 -2 0 35 -18 -3

0 -2 4 66 -42 29

>> (3,:)= (3,:)+1\* (2,:)

=

1 0 2 -8 5 -3

0 2 0 2 -2 -1

0 0 0 37 -20 -4

0 -2 4 66 -42 29

>> (4,:)= (4,:)+1\* (2,:)

=

1 0 2 -8 5 -3

0 2 0 2 -2 -1

0 0 0 37 -20 -4

0 0 4 68 -44 28

>> (1,:)= (1,:)-0.5\* (4,:)

=

1 0 0 -42 27 -17

0 2 0 2 -2 -1

0 0 0 37 -20 -4

0 0 4 68 -44 28

>> r= (3,:); (3,:)= (4,:); (4,:)=r

=

1 0 0 -42 27 -17

0 2 0 2 -2 -1

0 0 4 68 -44 28

0 0 0 37 -20 -4

>> (1,:)= (1,:)+42/37\* (4,:)

=

1.00000 0.00000 0.00000 0.00000 4.29730 -21.54054

0.00000 2.00000 0.00000 2.00000 -2.00000 -1.00000

0.00000 0.00000 4.00000 68.00000 -44.00000 28.00000

0.00000 0.00000 0.00000 37.00000 -20.00000 -4.00000

>> (2,:)= (2,:)-2/37\*(4,:)

=

1.00000 0.00000 0.00000 0.00000 4.29730 -21.54054

0.00000 2.00000 0.00000 0.00000 -0.91892 -0.78378

0.00000 0.00000 4.00000 68.00000 -44.00000 28.00000

0.00000 0.00000 0.00000 37.00000 -20.00000 -4.00000

>> (3,:)=(3,:)-68/37\*(4,:)

=

1.00000 0.00000 0.00000 0.00000 4.29730 -21.54054

0.00000 2.00000 0.00000 0.00000 -0.91892 -0.78378

0.00000 0.00000 4.00000 0.00000 -7.24324 35.35135

0.00000 0.00000 0.00000 37.00000 -20.00000 -4.00000

K={1 , 2 , 3 , 4}; L={5 , 6};

x1 = [a1 b1 c1 d1 1 0]T  denklemi çözülürse

x1 = [-4.29730/1 +0.91892/2 +7.24324/4 +20/37 1 0 ]T

x1 = [-4.2973 0.45946 1.81081 0.54054 1 0 ]T

x2 = [a2 b2 c2 d2  0 1]T  denklemi çözülürse

x2 = [21.54054/1 0.78378/2 -35.35135/4 +4/37 0 1]T

x2 = [21.54054 0.39189 -8.83784 0.108108 0 1 ]T

x1 ve x2 sütun vektör (transpoza dikkat).

Taban =