```
In [24]:
from sympy import *
In [26]:
M = Matrix([[3, 11, 19, -2], [7, 23, 39, 10], [-4, -3, -2, 6]])
In [27]:
M. rref()
Out[27]:
(Matrix([
 [1, 0, -1, 0],
 [0, 1, 2, 0],
 [0, 0, 0, 1]]),
 (0, 1, 3))
In [22]:
M = GF7([[3, 1, 4, 1], [5, 2, 6, 5], [0, 5, 2, 1]])
In [23]:
GF7. row_reduce(M)
Out[23]:
GF([[1, 0, 0, 4],
    [0, 1, 0, 3],
    [0, 0, 1, 0]], order=7)
In [ ]:
```