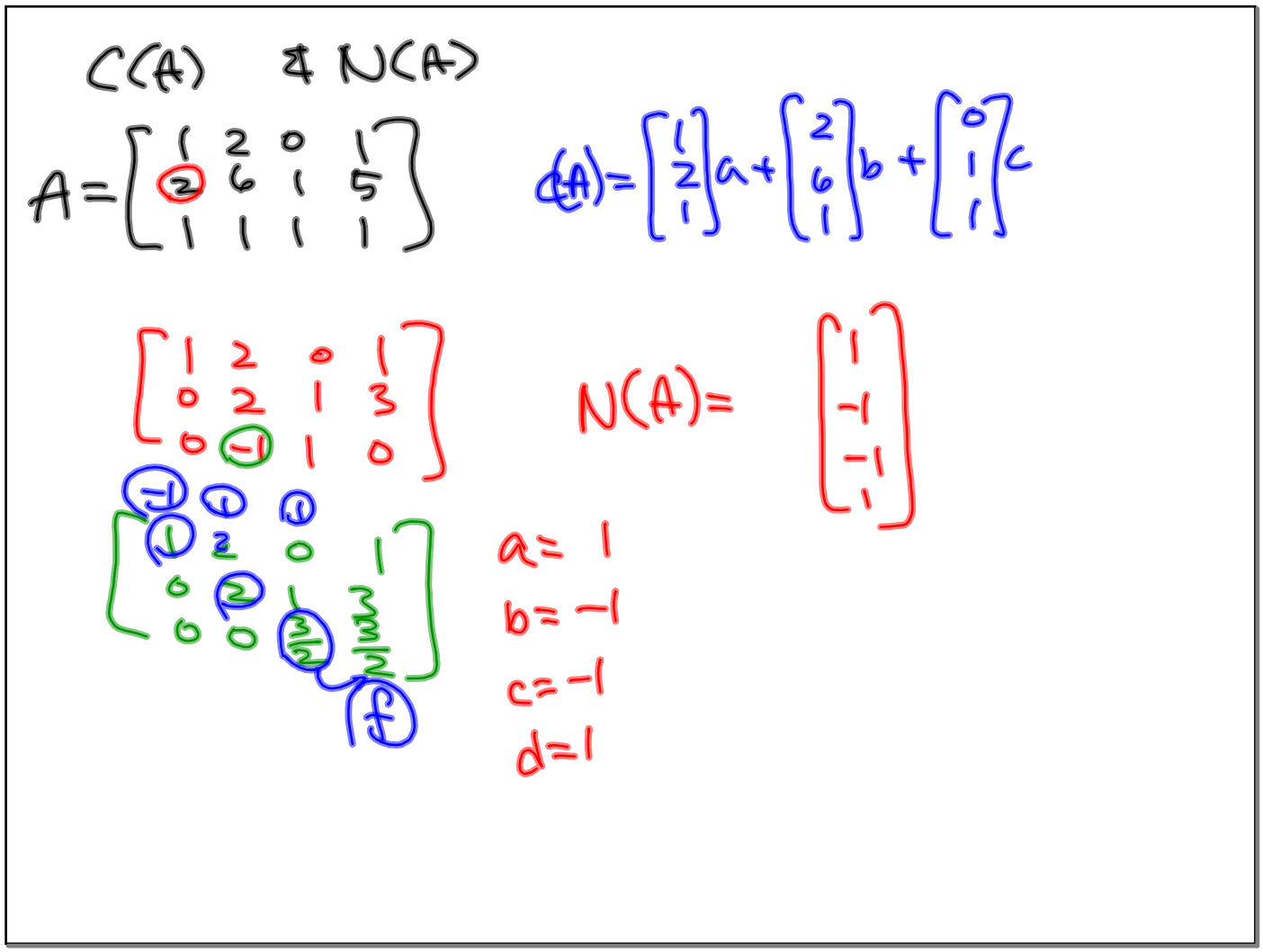
C(A) & N(A)
A = [1 2 0 1; 2 6 1 5; 1 1 1 1]
C(A) = [1 2 1]a + [2 6 1]b + [0 1 1]c
[1 2 0 1; 0 2 1 3; 0 -1 1 0]
[1 0 0 1; 0 2 0 3; 0 0 1 -1]
N(A) = [1 -1 -1 1]
a = 1
b = -1
c = -1
d = 1

$$\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 10 & 20 & 30 \end{bmatrix} \rightarrow \begin{bmatrix} \textcircled{1} & 2 & 3 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$b$ $c$

$$C(A) = \begin{bmatrix} 1 \\ 2 \\ 10 \end{bmatrix} a$$

$a$ $-2$ $-3$

$b$ $1$ $0$

$c$ $0$ $1$

$$N(A) = \begin{bmatrix} -2 \\ 1 \\ 0 \end{bmatrix} x_1 + \begin{bmatrix} -3 \\ 0 \\ 1 \end{bmatrix} x_2$$

$$ax + by = e$$
$$cx + dy = f$$

$$cax + cby = ce$$
$$acx + ady = af$$
$$(cb - ad)y = ce - af$$
$$y = \frac{ce - af}{cb - ad}$$