

Bài 6:

$$\begin{pmatrix} 1 & -a & a & m \\ b & c & -3 & 1 \\ a & a & b & 5 \end{pmatrix}$$

Sau khi thay thế $(3, -1, 2)$:

$$\overline{A} = \begin{pmatrix} -1 & 0 & 2 & -3 \\ 0 & 3 & -1 & 7 \\ 3 & 2 & 0 & 7 \end{pmatrix}$$

$$\rightarrow \begin{pmatrix} 1 & 0 & -2 & 3 \\ 0 & 1 & -1/3 & 7/3 \\ 0 & 0 & 1 & -1 \end{pmatrix}$$

$$\rightarrow \begin{pmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & -1 \end{pmatrix}$$

$$\Rightarrow \begin{cases} a = 1 \\ b = 2 \\ c = -1 \end{cases}$$