4.
$$(xy \neq \omega) \mapsto (yz)$$

$$\Rightarrow x: \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \mapsto \begin{pmatrix} 0 \\ 0 \end{pmatrix}, y \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} \mapsto \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}, z \begin{pmatrix} 0 \\ 0 \\ 1 \\ 0 \end{pmatrix} \mapsto \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$$A = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{pmatrix}$$

$$3x + 2y - 6z = -1$$

7.
$$3x + 2y - 6z = -1$$
 $-2x \cdot 5y + 4z = 7$, $A = \begin{pmatrix} 3 & 2 & -6 \end{pmatrix} \begin{pmatrix} x \\ -2 & 5 & 4 \end{pmatrix} \begin{pmatrix} y \\ z \end{pmatrix} = \begin{pmatrix} 7 \\ 2 \end{pmatrix} = V$
 $4x - 3y - 8z = 2$
 $\begin{pmatrix} A^{\dagger}A & A^{\dagger}V \end{pmatrix} = \begin{pmatrix} 29 & -16 & -58 & -9 \\ -16 & 38 & 32 & 27 \\ -58 & 32 & 116 & 18 \end{pmatrix}$

G.
$$A = (0,0,1), B = (1,x,2), C = (t,t,-2+2t)$$
 $AB = \begin{pmatrix} 1 & 0 & 1 & BC & t & 1 & t-1 & t-$