$$\begin{bmatrix} X \\ Y \end{bmatrix} = \begin{bmatrix} A & B & \vdots \\ C & D & \vdots \\ E & F & \vdots \end{bmatrix} \begin{bmatrix} A \\ A \end{bmatrix} + \begin{bmatrix} G \\ A \end{bmatrix}$$

$$\begin{bmatrix} CL_1 - AL_2 \Rightarrow (BC - AD)_1 = C(X - G) + A(Y - Y) \\ EL_1 - AL_3 \Rightarrow (BE - AF)_Y = E(X - G) + A(T - Z)$$

$$EL_2 - CL_3 \Rightarrow (DE - CF)_Y = E(Y - H) + C(T - Z)$$

$$DL_1 - BL_2 \Rightarrow (AD - BC)_X = D(X - G) + B(H - Y)$$

$$FL_1 - BL_3 \Rightarrow (AF - BF)_X = F(X - G) + B(T - Z)$$

$$FL_2 - DL_3 \Rightarrow (CF - DE)_X = F(Y - H) + D(T - Z)$$