## 4些 Quiz I.

$$db^{-1} = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 1 & 4 & 5 & 2 \end{pmatrix}$$

2. 
$$\begin{vmatrix} t+3 & -1 & 1 \\ 5 & t-3 & 1 \\ 6 & -6 & t+4 \end{vmatrix}$$

$$= (++3) \left\{ (t-3)(t+4) + 6 \right\} + 1 \cdot \left\{ 5(t+4) - 6 \right\}$$

$$+ 1 \cdot \left\{ -30 - 6(t-3) \right\}$$

$$= (t+3)^{2}(t-2) + 5t + |4 - 6t - |2 - |$$

$$= (t+3)^{2}(t-2) - (t-2)$$

 $=((t+3)^2-1)(t-2)|_{t=-3}=[5]$ 

$$\begin{vmatrix} 3-2x & 5+2x & 1 \\ 7+2x & 3-2x & 2 \\ 11-3x & 10+3x & 3 \end{vmatrix}$$
=  $(3-x)$  \{  $3(3-2x)-2(10+3x)$ \}
-\((5+x)\) \{  $3(9+2x)-2(11-3x)$ \}
+\(\frac{1}{1}(19+2x)(19+3x)-(3-2x)(11-3x)\}
=  $(3-x)(-25-12x)-(5+x)(-1+12x)+(86+86x)$ 
=  $...$  \[ \frac{1}{2}=-1\]

4. 
$$0 = \begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 3 & 1 & -2 \end{vmatrix} = 3$$

$$D_{1} = \begin{vmatrix} 9 & 23 \\ 24 & 56 \\ 4 & 1-2 \end{vmatrix} = 9(-16) - 2(-12) + 3(4)$$

$$D_{2} = \begin{vmatrix} 1 & 9 & 3 \\ 4 & 24 & 6 \\ 3 & 4 & -2 \end{vmatrix} = -1/2 - 9(-26) + 3(-56)$$
$$= -6$$

$$D_3 = \begin{vmatrix} 1 & 2 & 9 \\ 4 & 5 & 24 \\ 3 & 1 & 4 \end{vmatrix} = -4 - 2(-56) + 9(-11)$$

$$= 9$$