[1,2] Let 
$$147 = \begin{bmatrix} d_1 \\ d_2 \end{bmatrix}$$
 and  $183 = \begin{bmatrix} \beta_1^2 \\ \beta_2^2 \end{bmatrix}$ . Then  $A = \begin{bmatrix} d_1^4 & d_2^4 \end{bmatrix}$  and  $A = \begin{bmatrix} \beta_1^4 & \beta_2^4 \end{bmatrix}$ .

Let  $1C7 = \begin{bmatrix} \gamma_1^2 \\ \gamma_2^2 \end{bmatrix}$ . Then  $C = \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix}$ .

 $C = \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} d_1 + \beta_1 \\ d_2 + \beta_2 \end{bmatrix} = 0$ ,  $A = \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} d_1 \\ d_2 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix}$ 
 $C = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix}$ 
 $C = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \end{bmatrix}$ 
 $C = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} + \begin{bmatrix} \gamma_1^4 & \gamma_2^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \gamma_1^4 & \beta_1 \end{bmatrix} = \begin{bmatrix} \gamma_1^4 & \gamma_1^4$ 

= 0, B, \* + d2 B2 V

 $\langle A | B \rangle^* = \left( \left[ \alpha_1^* \alpha_2^* \right] \left[ \beta_2^* \right] \right)^* = \left( \alpha_1^* \beta_1^* + \alpha_2^* \beta_2 \right)^* \stackrel{\cong}{=} \left( \alpha_1^* \beta_1 \right)^* + \left( \alpha_2^* \beta_2 \right)^*$ 

«, 3, x = (q,+q,i)(b,-b,i) = (q,b,+q,bz)+(q2b,-9,b,)i√