

$$\left\{ \hat{\mathbf{y}} = \begin{pmatrix} \theta & \theta \\ \epsilon & \theta \end{pmatrix}, \hat{\mathbf{b}} = \begin{pmatrix} \theta & \theta \\ \theta & -\epsilon \end{pmatrix}, \hat{\mathbf{a}} = \begin{pmatrix} 1 & \theta \\ \theta & \theta \end{pmatrix}, \hat{\mathbf{x}} = \begin{pmatrix} \theta & 1 \\ \theta & \theta \end{pmatrix} \right\};$$

$$\left\{ \hat{\mathbf{a}} \cdot \hat{\mathbf{x}} - \hat{\mathbf{x}} \cdot \hat{\mathbf{a}} = \hat{\mathbf{x}}, \hat{\mathbf{a}} \cdot \hat{\mathbf{y}} - \hat{\mathbf{y}} \cdot \hat{\mathbf{a}} = -\hat{\mathbf{y}}, \hat{\mathbf{b}} \cdot \hat{\mathbf{y}} - \hat{\mathbf{y}} \cdot \hat{\mathbf{b}} = -\epsilon \hat{\mathbf{y}}, \right.$$

$$\left. \hat{\mathbf{b}} \cdot \hat{\mathbf{x}} - \hat{\mathbf{x}} \cdot \hat{\mathbf{b}} = \epsilon \hat{\mathbf{x}}, \hat{\mathbf{x}} \cdot \hat{\mathbf{y}} - \hat{\mathbf{y}} \cdot \hat{\mathbf{x}} = \hat{\mathbf{b}} + \epsilon \hat{\mathbf{a}} \right\}$$