

$$\det [\lambda I - \bar{A}] = 0$$

$$\det \begin{bmatrix} \lambda & -1 \\ -k_1 & \lambda - k_2 \end{bmatrix} = 0$$

$$\lambda(\lambda - k_2) - k_1 = 0$$

$$\lambda^2 - k_2 \lambda - k_1 = 0$$

$$-k_2 = -2a$$

$$k_2 = 2a < 0$$

$$-k_1 = a^2 + b^2$$

$$k_1 = -(a^2 + b^2) < 0$$

$$\det \left(\begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix} - \begin{bmatrix} 0 & 1 \\ k_1 & k_2 \end{bmatrix} \right) = 0$$

$$\lambda_1 = a + jb \quad a < 0$$

$$\lambda_2 = a - jb$$

$$(\lambda - \lambda_1)(\lambda - \lambda_2) = 0$$

$$\lambda^2 - (\lambda_1 + \lambda_2)\lambda + \lambda_1 \lambda_2 = 0$$

$$\lambda^2 - 2a\lambda + (a^2 + b^2) = 0$$

$$K = \begin{bmatrix} 2a & -(a^2 + b^2) \end{bmatrix}$$

dapat ditentukan
 dengan menempatkan λ
 di mana saja dalam bidang Komplek