





















A guide trick to compute eigen value

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \qquad \frac{a+d}{2} = \frac{\lambda_1 + \lambda_2}{2} = m$$

$$det = ad-bc = \lambda_1 \lambda_2 = p$$

$$\lambda_1 \lambda_2 = m \pm \sqrt{m^2 - p}$$

