Mathe Pollons

1)

$$O_{x} = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$$
 $O_{y} = \begin{pmatrix} 0 & -i \\ 1 & 0 \end{pmatrix}$
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Sor eigenvalues

$$\det \left[H - \lambda \Pi \right] = 0$$

$$\det \left[H - \lambda \Pi \right] = 0$$

$$\det \left[-\lambda \Omega_{x} - i\Omega_{y} \right] = 0$$

$$\Omega_{x} + i\Omega_{y} - \lambda$$

$$\lambda^{2} - \left(\Omega_{x} - i\Omega_{y} \right) \left(\Omega_{x} + i\Omega_{y} \right) = 0$$

$$\lambda^{2} - \left(\Omega_{x}^{2} + \Omega_{y}^{2} \right) = 0$$

$$\int_{2\pi}^{2\pi} \left(\Omega_{x} + \Omega_{$$

H.
$$e_1 = \lambda_1 \cdot e_1$$
 $(H-A_1 I)e_1 = O$
 $(H$

 $\Psi = \begin{pmatrix} 9 \\ 6 \end{pmatrix} |a|^2 + |b|^2 = 1$