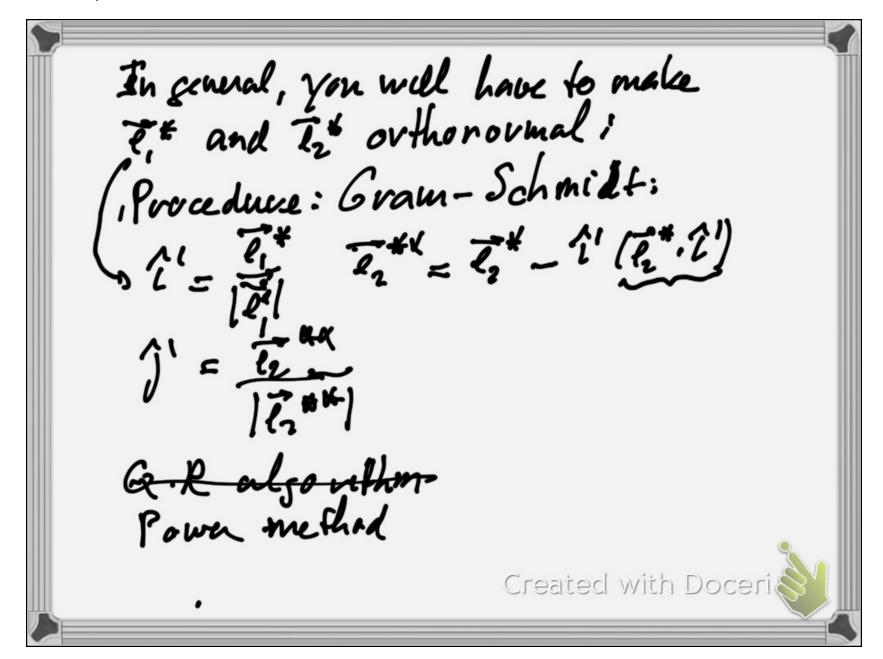
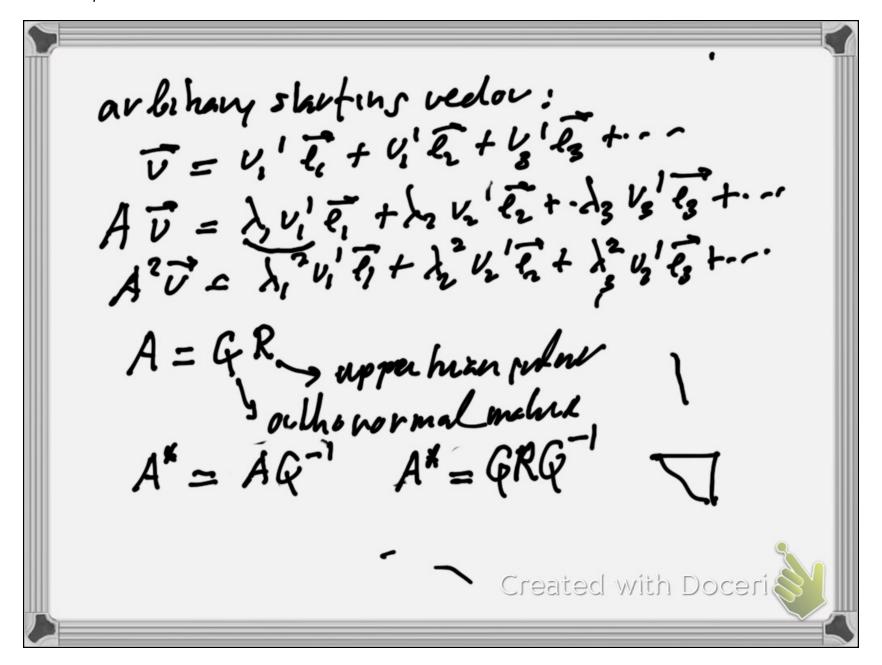


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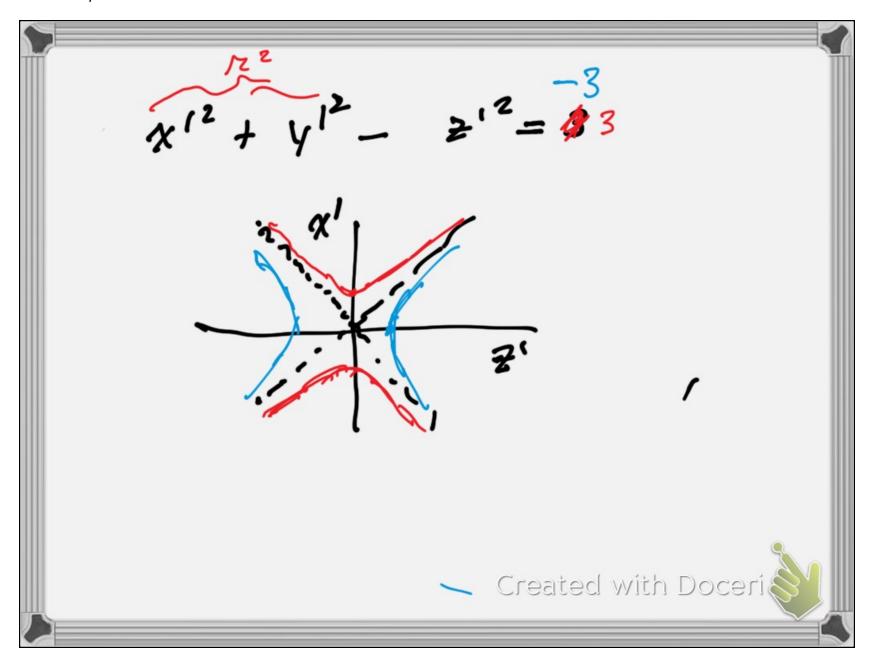
$$A = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & -2 & 0 \\ 0 & -2 & 1 & 0 \end{pmatrix}$$
orthonormal
eigenvectors
vequived
$$\begin{vmatrix} A - \lambda I \\ = \begin{vmatrix} \lambda \lambda I \\ = \begin{vmatrix} \lambda \lambda I \\ = -\lambda \end{vmatrix} \begin{vmatrix} \lambda I \\ = -\lambda \end{vmatrix} \end{vmatrix} \begin{vmatrix} \lambda I \\ = -\lambda \end{vmatrix} \begin{vmatrix}$$

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quadralic forme in 3D  $\lambda_1 x^{12} + \lambda_2 y^{12} + \lambda_3 z^{12} = - \cdots$ all à volues same egn - all positive ellipsoids (equivalent to 2 + 4 2 + 2 = We way what I equal sphere aim102120.pdf Page 7 of 8



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