- Can The Jeterminant is the avea of the transformation northix Map each of the vectors making it up have been posses throughit.
- LOW AS I understand it, the span of a vector vis the line composes of all over laps of Civ where Cls & scalar.
- (c): It must betrane to sutisfy that (c): It must be true to sutisfy that $(A-\chi I)$ $\begin{bmatrix} \kappa_i \\ b_i \end{bmatrix} = \begin{bmatrix} \sigma \\ 0 \end{bmatrix}$.

 We know that the determinant of

det(M-2I)= 9 22+62+62

and that for 2 to be an elgeral nie it must satisfy a 2 12 - 16 2 + C = 0; by the quadratic formula, there

must a limited be at least one imaginary solution for 2 lath's e a untion.

ler The "right basis" ous discussed in the video, to seems to be another of by which the original transformation the matrix resulting fr -om applying a change in perspective, the original most kix, and then an inverse Change in perspective.