Principal stresses [5]= (2 10 0 ) Tahrx. Pihe re presentation of 10 0 8 tensor e in the basis (e, e, e, e) B Searching for eigenvalues.  $\det \left( \frac{7}{2} - \frac{1}{2} \right) = 0 \sim 2 - \frac{10}{10} - \frac{10}{8} = 0$ Make sure you know how to coloutate a characteristic equation by Rard:  $(2-9)(3^2-64)+1009=00$ 3 eigenvalues:  $\Lambda_{\pm} = -12,246/\Lambda_{\pm} = 0,776/\Lambda_{\pm} = 13.470$ D Searching for eigenrechos.

Remember, PI is associated with AI if I.P. = AIP.

so PI is a solution of (I-AII). PI = D.

and by convention we always take ||P| = 1.