For Characteristic Eq $\begin{bmatrix} 2 & 3 \\ 3 & 5 \end{bmatrix}$ for 2x2 matrix 12-71+1=0 12 (teace of A) & + det A=0. 32 (teace A) 12+ (minor along diagonal) A-det A=0 For 3x3 matrix

 $\lambda^{3} = 6\lambda^{2} + (6 - 1 + 2)\lambda + 2 = 0$ $\lambda^{3} = 6\lambda^{2} + 7\lambda + 2 = 0$