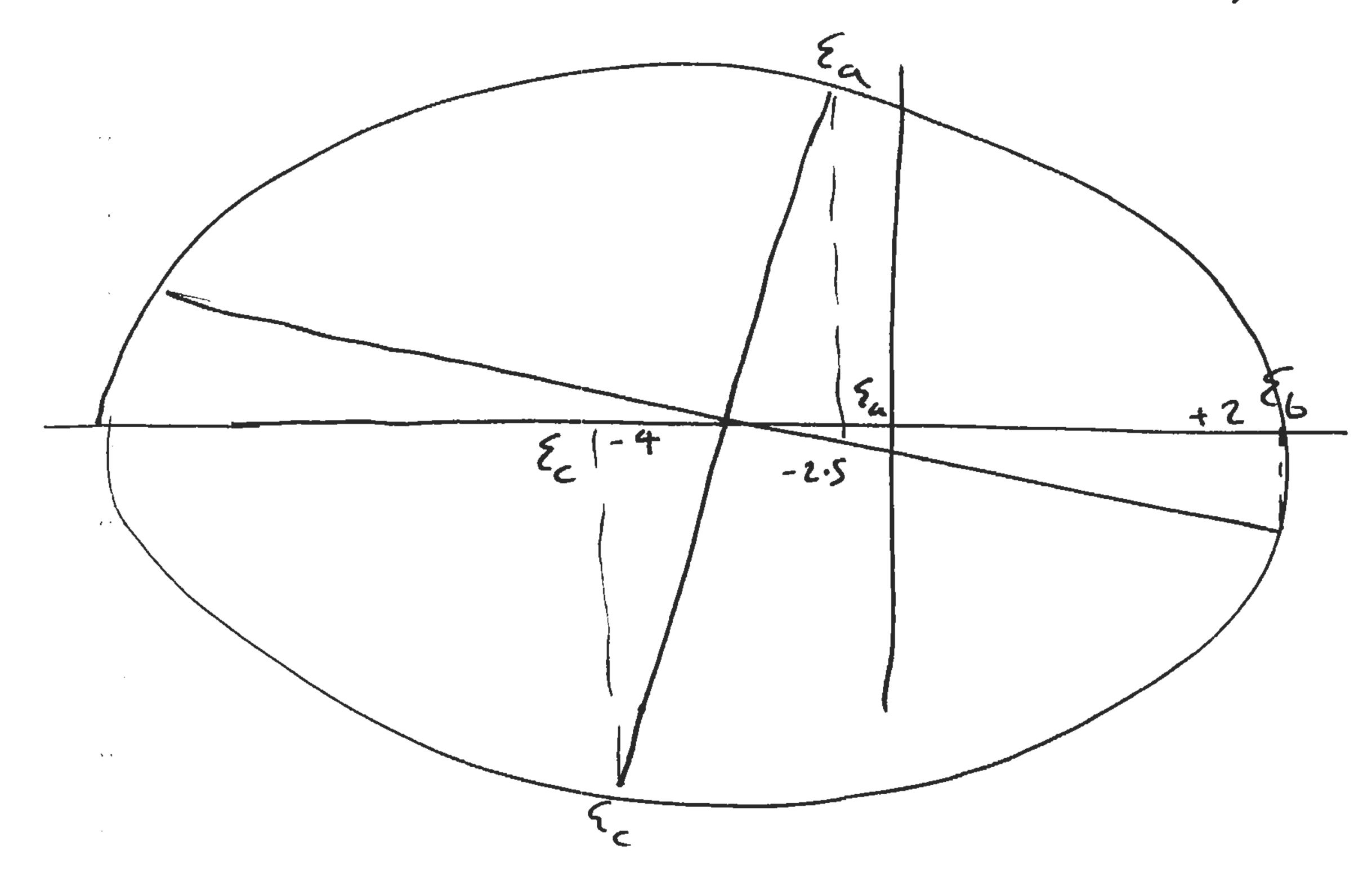
$$\mathcal{E}_{\alpha} = -2.5 \,\text{m} \, \mathcal{E} = 2500 \,\mu \, \mathcal{E}$$

 $\mathcal{E}_{\alpha} = +2.0 \,\text{m} \, \mathcal{E} = 2000 \,\mu \, \mathcal{E}$
 $\mathcal{E}_{c} = -4.0 \,\text{m} \, \mathcal{E} = 4000 \,\mu \, \mathcal{E}$



Raduis =
$$\sqrt{(2-(-3.25))^2+(3.25-2.5)^2} = 5.3 \text{ NA } \Sigma$$

$$\Sigma_{T} = +2053 \mu \Sigma$$
 $\Sigma_{II} = -8553 \mu \Sigma$

a)
$$Shl = 0$$
, $Shm = \frac{1}{2} = \frac{1}$

Enn Pashaly

Plane Shan

$$\Sigma_{11} = \frac{U_{11}}{E} - \frac{2U_{22}}{E} - \frac{2U_{33}}{E}$$

Multiply Mungh bog 1 Ind 2 add to 2

$$\sqrt{2} = \frac{\sqrt{2}}{4} \left(1 - \sqrt{2}\right)$$

 $\sigma_{12} = \frac{E(\sqrt{\xi_{11} + \xi_{12}})}{(1 - \sqrt{2})} = \frac{70 \times 10^{9} (0.33 \times (-2500) + (-400)) \times 10^{-6}}{(1 - (0.33)^{2})}$

Similarly for $\overline{U_6} = \overline{U_7} = \overline{E(\overline{V}_{11} + \overline{V}_{11})} = -63 MPa = \overline{U_{1-\overline{V}^2}}$

Principal Stresses for principal strains $G_{T} = \frac{E(\xi_{T} + \lambda \xi_{T})}{(1-\lambda^{2})} = -60.4 \text{ MPa} =$

$$\frac{6}{4} = \frac{E(\xi_{II} + \lambda \xi_{I})}{(1 - \lambda^{2})} = -618.7 \text{MPa} = \frac{E(\xi_{II} + \lambda \xi_{I})}{(1 - \lambda^{2})}$$

5m = 0