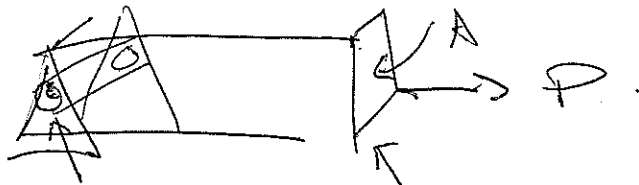


1.95

$$\frac{V}{A}$$



$$\tau_{ALLOW}$$

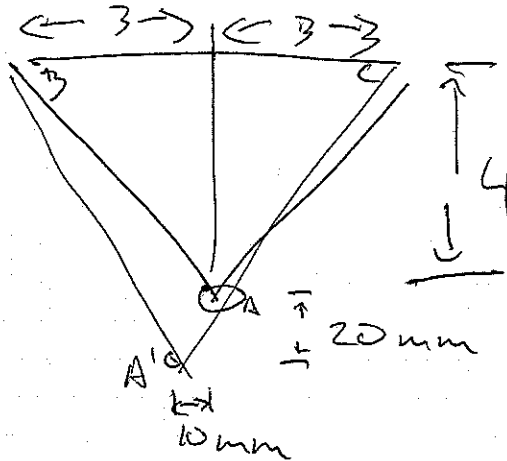
$$\sigma_{ALLOW} = P/A$$



$$\frac{P}{A} = \tau_{ALLOW}$$

$$\frac{P}{2(\pi \frac{d^3}{4})} = \tau_{ALLOW}$$

2.1



$$AB = 5m$$

$$AC = 5m$$

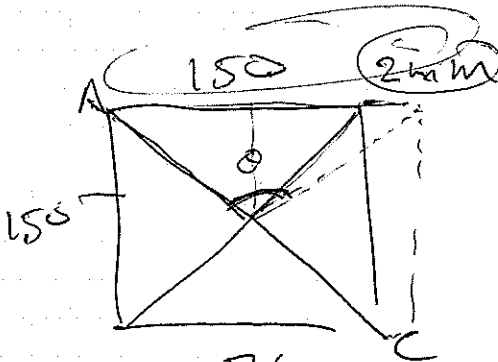
$$A'B = \sqrt{4.02^2 + 2.99^2} = 5.010$$

$$A'C = \sqrt{4.02^2 + 3.02^2} = 5.022$$

$$\epsilon_{AB} = \frac{5.010 - 5}{5} = .002$$

$$\epsilon_{BC} = \frac{5.022 - 5}{5} = .0044$$

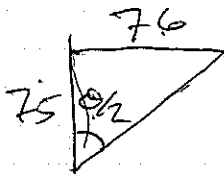
2.3



$$AC = \sqrt{2(150)^2} = 212.130mm$$

$$AC' = \sqrt{150^2 + 150^2} = 213.55mm$$

$$\frac{AC' - AC}{AC} = \epsilon_{AC} = .00669$$



$$\tan \frac{\theta}{2} = 76/75$$