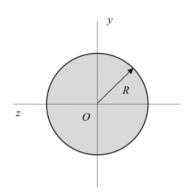
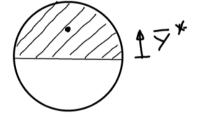
Use the shear stress formula for a general shape cross section developed in lecture to determine an expression for the shear stress at the neutral axis along the symmetry axis y of the circular cross section beam shown below.





$$\omega A^{*} = \frac{1}{2} \pi R^{2}$$

$$\overline{Y}^{*} = \frac{4R}{3\pi}$$

$$T = \frac{\left(\frac{\pi}{2}R^2\right)\left(\frac{4R}{3\pi}\right)}{\left(\pi}$$

$$\frac{1}{\sqrt{TR^2}} = Tave$$