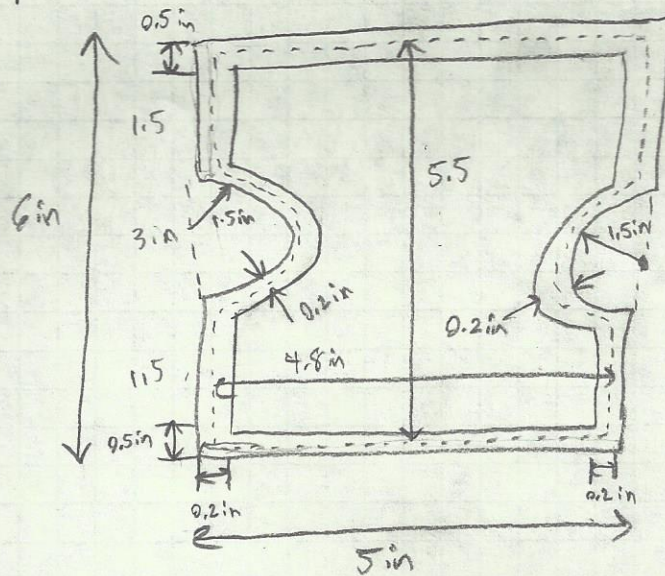


3.144



$$\tau_{max} = 12 \text{ ksi}$$

$$T_{\max} = ?$$

$$\tau = \frac{\sigma}{t}$$

$$\tau = \frac{T}{2tA}$$

$$A = (5\text{ in})(6\text{ in}) - 2 \frac{\pi}{2} (1.6)^2 - (5(0.25))(2) - 1.5(0.1)(4) = 18.86 \text{ in}^2$$

$$12 \times 10^3 = \frac{T_{\max}}{2(0.2)(18.86)}$$

$$T_{\max} = 9.053 \times 10^4 \text{ lb} \cdot \text{in}$$