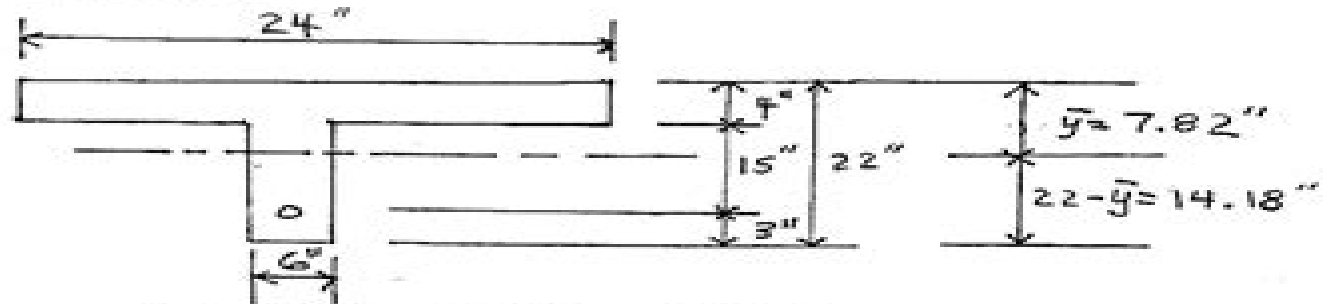


PROB # 2.3



$$A = (24)(4) + (6)(18) = 204 \text{ in.}^2$$

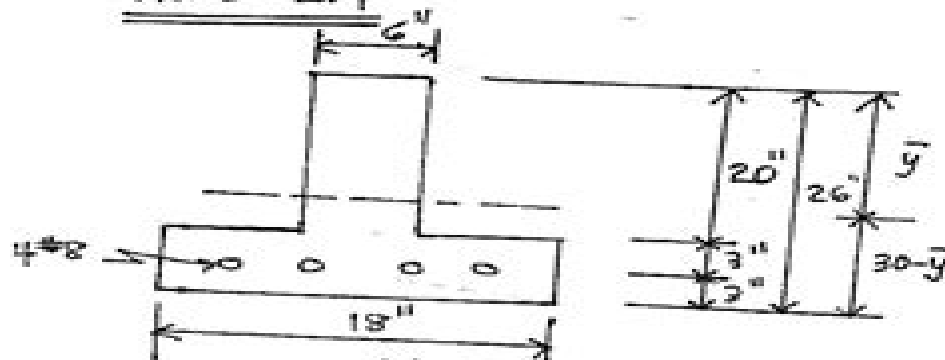
$$\bar{y} \text{ from top} = \frac{(24)(4)(2) + (6)(18)(13)}{204} = 7.82 \text{ in.}$$

$$I_g = \left(\frac{1}{3}\right)(24)(7.82^3 + 14.18^3) - \left(\frac{1}{3}\right)(6)(3.82^3 + 14.18^3) = 9194 \text{ in.}^4$$

$$F_r = 7.5 \sqrt{4000} = 474 \text{ psi}$$

$$M_{cr} = \frac{(474)(9194)}{14.18} = 307,309 \text{ in.-lbs.} = \boxed{25.6 \text{ Ft.-k}} \quad \checkmark \text{ gcm}$$

PROB # 2.4



$$A = (6)(20) + (18)(6) = 228 \text{ in.}^2$$

$$\bar{y} = \frac{6(20)(10) + 18(23)(6)}{228} = 16.16 \text{ in.}$$

$$I_g = \left(\frac{1}{3}\right)(6)(16.16)^3 + \left(\frac{1}{3}\right)(18)(9.84)^3 - \left(\frac{1}{3}\right)(12)(3.84)^3 = 13,930 \text{ in.}^4$$

$$F_r = 7.5 \sqrt{4000} = 474 \text{ psi}$$

$$M_{cr} = \frac{(474)(13,930)}{9.84} = 671,034 \text{ in.-lbs.} = \boxed{55.9 \text{ Ft.-k}} \quad \checkmark \text{ gcm}$$

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AW Rasmussen



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