

Properties of Cross Sections

1- Find the moment of inertia of the shown cross sections about horizontal and vertical axes through its centroid.

Fig.1

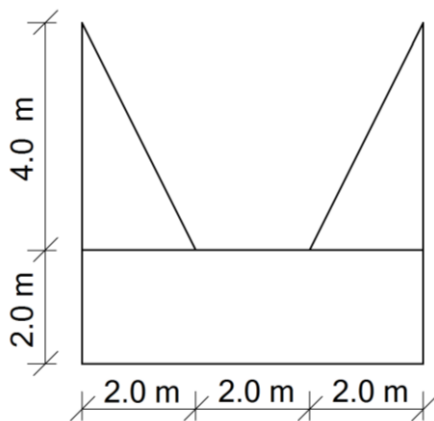


Fig.2

C No.22

$$A = 37.40 \text{ cm}^2$$

$$I_x = 2690 \text{ cm}^4$$

$$I_y = 197 \text{ cm}^4$$

$$e = 2.14 \text{ cm}$$

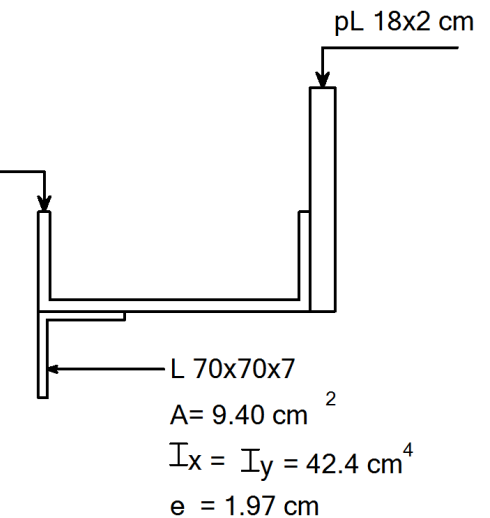


Fig.4

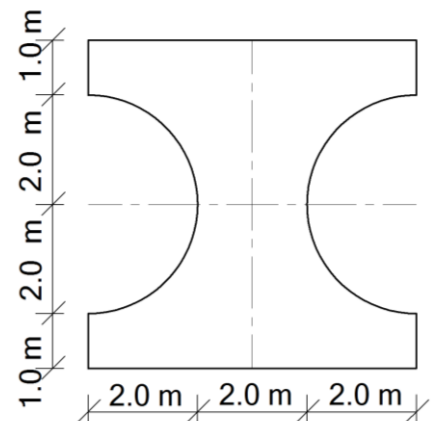


Fig.3

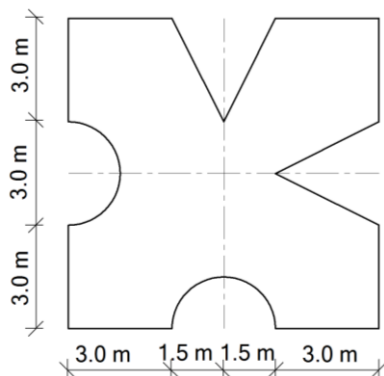


Fig.5

