



$$I_{x_1} = \frac{1}{12} (100)(90^3) = 6.08(10^6) \text{ mm}^4$$

$$I_{x_2} = - \frac{\pi (30^4)}{8} = -0.318(10^6) \text{ mm}^4$$

$$\text{So } I_x = (6.08 - 0.318)10^6 = \underline{5.76(10^6) \text{ mm}^4}$$

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