

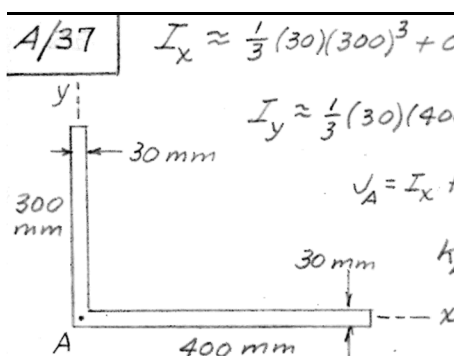
A/37 $I_x \approx \frac{1}{3}(30)(300)^3 + 0 = 270(10)^6 \text{ mm}^4$

$I_y \approx \frac{1}{3}(30)(400)^3 + 0 = 640(10)^6 \text{ mm}^4$

$I_A = I_x + I_y = 910(10)^6 \text{ mm}^4$

$k_A = \sqrt{I_A/A} = \sqrt{\frac{910(10)^6}{30(300+400)}}$

$k_A = \underline{208 \text{ mm}}$



The diagram shows an L-shaped cross-section. The vertical leg has a height of 300 mm and a thickness of 30 mm. The horizontal leg has a width of 400 mm and a thickness of 30 mm. The corner is labeled A. A y-axis is shown for the vertical leg and an x-axis for the horizontal leg.

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