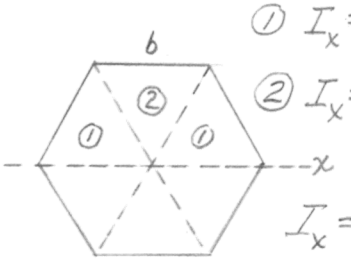
A/53 From Sample Problem A2



① $I_x = \frac{1}{12} b (b\sqrt{3}/2)^3 = \frac{\sqrt{3}}{32} b^4$

② $I_x = \frac{1}{4} b h^3 = \frac{1}{4} b (b\sqrt{3}/2)^3 = \frac{3\sqrt{3}}{32} b^4$

$I_x = 4I_{①} + 2I_{②} = \frac{\sqrt{3}}{8} b^4 + \frac{3\sqrt{3}}{16} b^4$

$= \frac{5\sqrt{3}}{16} b^4$