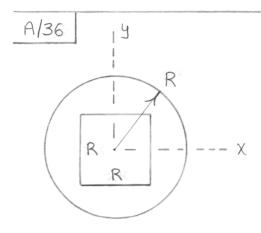
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Without square hole: $I_z = 2I_x = 2(\frac{1}{4}\pi R^2 \cdot R^2) = 1.571R^4$ With hole: $I_z = 1.571R^4 - 2(\frac{1}{12}R \cdot R^3) = 1.404R^4$

(a reduction of 10.6190)