## **ANSWERS- VOLUME 2: EQUILIBRIUM**

Chapter 3, Cross-Sectional Properties

problem 3.35, page 147

Remarks:

See §3.2.4, particularly page 116

See §3.3.2, example 2, page 126 till 129

Answers:

$$I_{77} = 4\pi R^3 t$$

## Explanation:

One can move the upper semi-circles horizontally with respect to the bottom semi-circles, such that there are 4 complete circles. Horizontally moving the semi-circles has no effect on  $I_{zz}$  (but it does on  $I_{yy}$ ).

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