## 3.152 Information and assumptions

Provided in problem statement

Find

Stability

**Solution** 

$$GM = I_{00}/\forall - CG$$
$$= \left(3H \left(2H\right)^3 / \left(12 \times H \times 2H \times 3H\right)\right) - H/2$$
$$= -H/6$$

Not stable about longitudinal axis

$$GM = I_{00} / \forall - CG$$
$$= \left(2H \left(3H\right)^{3} / \left(12 \times H \times 2H \times 3H\right)\right) - H/2$$
$$= H/4$$

Stable about transverse axis

Not stable.