

Phys601/F11/Problem Set 12

- 1. To be upgraded*
- 2. Not graded as usual*
- 3. Some of these may be declared to be Take-Home Final problems*

12.1G $I\omega$

Goldstein Ch5 Problem 18

Do part (b) in two ways: First, simply calculate $I\omega$ in the space based system and evaluate \mathbf{N} using this. Second, use free-body diagrams to note that there must be an additional force on each mass to make the system rotate as specified; find this force and therefore find \mathbf{N} .