

PHY 3221 : Intermediate Mechanics, Spring 2003

April 18th, 2003

Assignment # 13

(due Friday April 25th, 2003, at the beginning of class)

1. Problem 10.1 of Marion and Thornton's book.
2. Problem 10.3 of Marion and Thornton's book.
3. A vertical wheel of radius b rolls along the ground with constant forward speed $\mathbf{V}_0$. Find the acceleration relative to the ground at any point on the rim (the rotating coordinates are fixed to the rolling wheel).
4. **Bonus Problem:** Problem 10.8 of Marion and Thornton's book.
5. **Bonus Problem:** Problem 10.9 of Marion and Thornton's book.