
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 $V_0$. 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.