Conservation of Energy - Leviathon



- 1. Validate or refute the claim that a maximum speed of 148 km/h is reached after the first drop.
- 2. Assuming no friction loss, calculate the height of hill 4.
- 3. Assuming no friction loss, calculate the speed at the top of hill 8.
- 4. Assuming no friction loss, calculate speed at the top of hill 6.
- 5. Explain why hill 8 creates "air time" while hill 5 is only a "butt-lifter."
- 6. Explain how your calculations would change if friction and air resistance were not ignored.