Corona Week 3

2. Conservation of Energy Problems

Assume Mechanical Energy Is Conserved



1. The coaster starts from a height of ____ m with no velocity, Its later velocity on the second hill is ____ m/ s. Solve for the later height.

Choose a start height greater than 50 m. Choose a later v less than 20 m/s.



2. Someone put Kryptonite in Superman's back pocket and he failed to take off. What was his final velocity just before impact? (Not after impact; I know that it's zero; I want the final velocity a moment before impact.)

Choose a start height greater than 40 m. Choose a start velocity greater than 10 m/s



3. The skater starts with an initial velocity and goes up a hill. Find her velocity at the later height.

Choose a later height less than 12 m. Choose a start velocity greater than 12 m/s