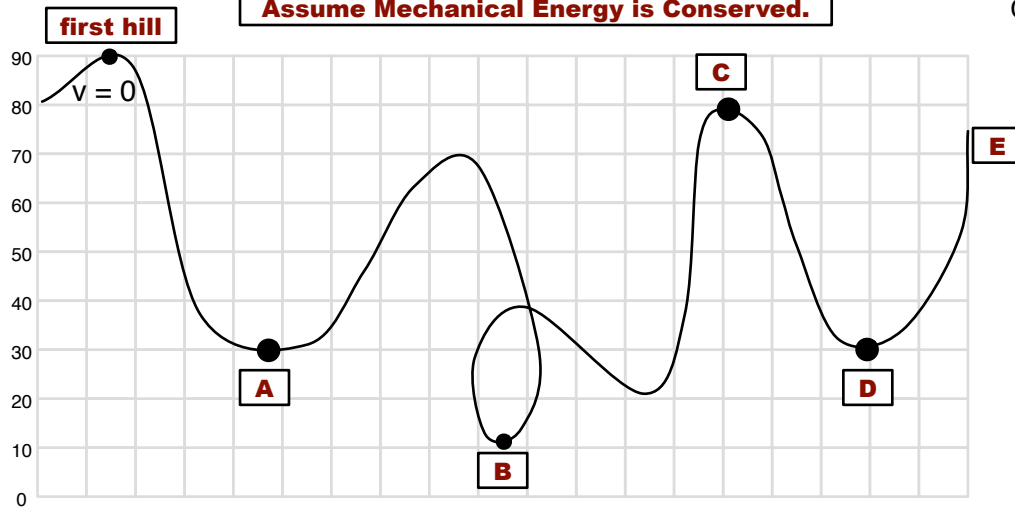


Roller Coaster

Worksheet

Assume Mechanical Energy is Conserved.



Choose a mass of coaster in the thousands of kg, but no digit is zero.

- ____ 1. Which spot is the fastest spot?
- ____ 2. Which spot is the slowest spot?
- ____ 3. Which two spots will have the same speed?
- ____ 4. Which spot is most likely to crush spines?
5. Calculate the total mechanical energy at the top of the first hill.
6. Calculate the speed at spots A, B and C.
7. After the vertical launch at E, how high will the coaster go?