

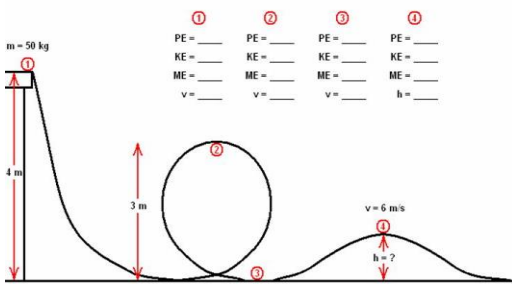
Law of Conservation of Energy Roller Coaster

Assumptions

- Assume the initial velocity = 0 m/s
- Make each of the given numbers have 3 SF

1

2



3

4

Answers

1. PE = 1960 J KE = 0 J v = 0 m/s
2. PE = 1470 J KE = 490 J v = 4.43 m/s
3. PE = 0 J KE = 1960 J v = 8.85 m/s
4. PE = 1060 J KE = 900 J h = 2.16 m/s