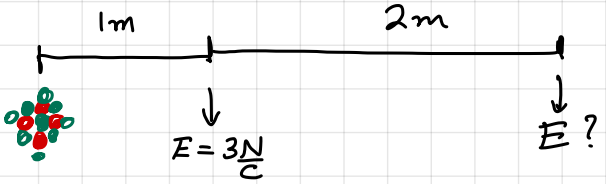
Physics Battle: Do remaining problems:

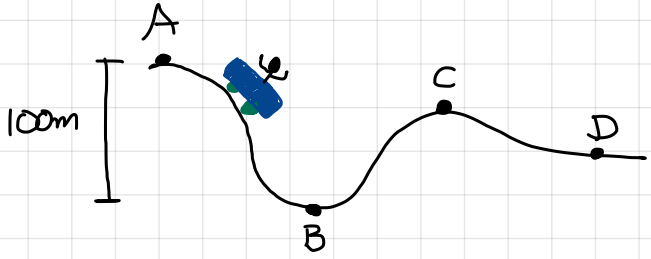
1. The Electric field 1m away from a positively charged ion is 3 N/C. a) What is the electric field 3m away from it?



b) What is the direction of the electric field at these points?

Bonus) How could you determine the charge of the ion? (Mathematically)

2. Consider the following rollercoaster:

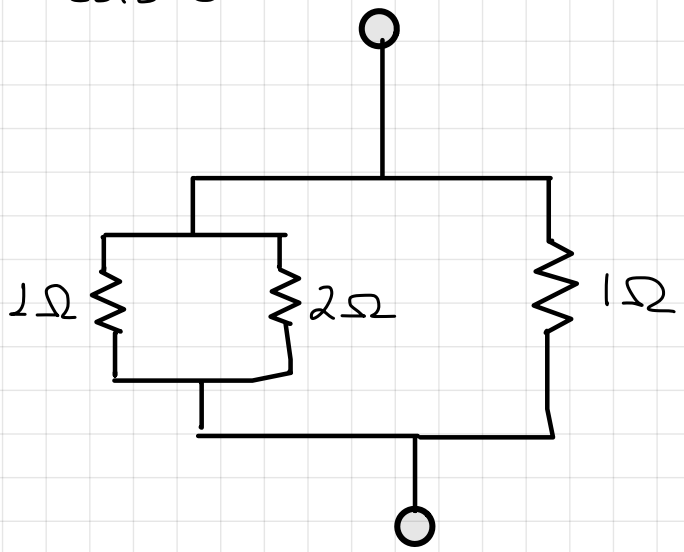


a) In which point would the energy be highest? Neglect friction of any type and consider only the force due to gravity.

b) Find the speed at Point B.

Physics Battle: Do remaining problems:

4. Find the equivalent resistance of the following resistors:



b) What voltage should we use if we want a 10 A current flowing through the ends?