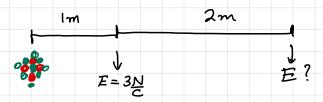
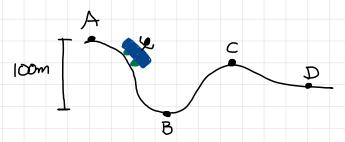
Physics Battle!

1. The Electric field,
1m away from a positively charged
ion is 3N(a, a) what is
the electric field 3m
away from it?



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

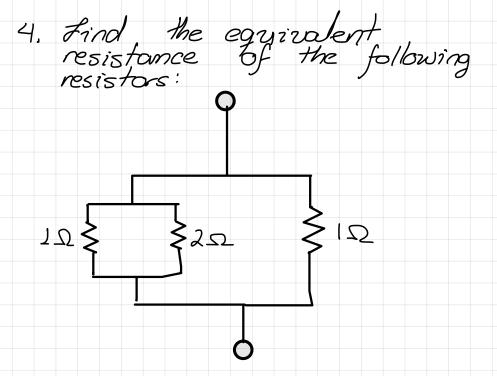
Bonus) flow could upun determine the charge of the ion? (Mathematically) 2. Consider the following rollercoaster:



- 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 of Point B.

Physics Battle!

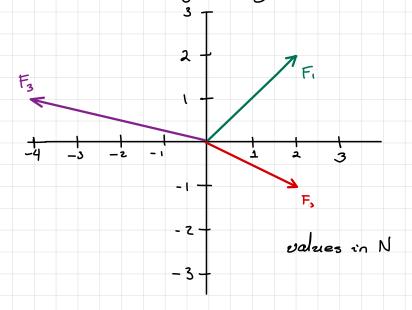
b) find I, and I2.



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

Physics Battle!

5. Consider the following free body diagram:



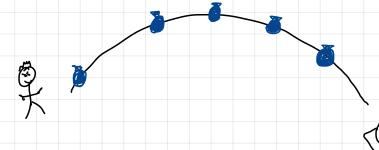
- a) find the resulting force.
- b) The resulting force is acting on a 2kg object. find its acceleration.

6. Imagine that you throw a water ballon from the top of the Physics building.

a) What is its
speed after
5 seconds?

BB Recall 9 = 9.81 m.
Seconds 2

Now imagine you throw it at one of your friends. It follows a parabola as shown below:



Draw the acceleration? vector at each point