

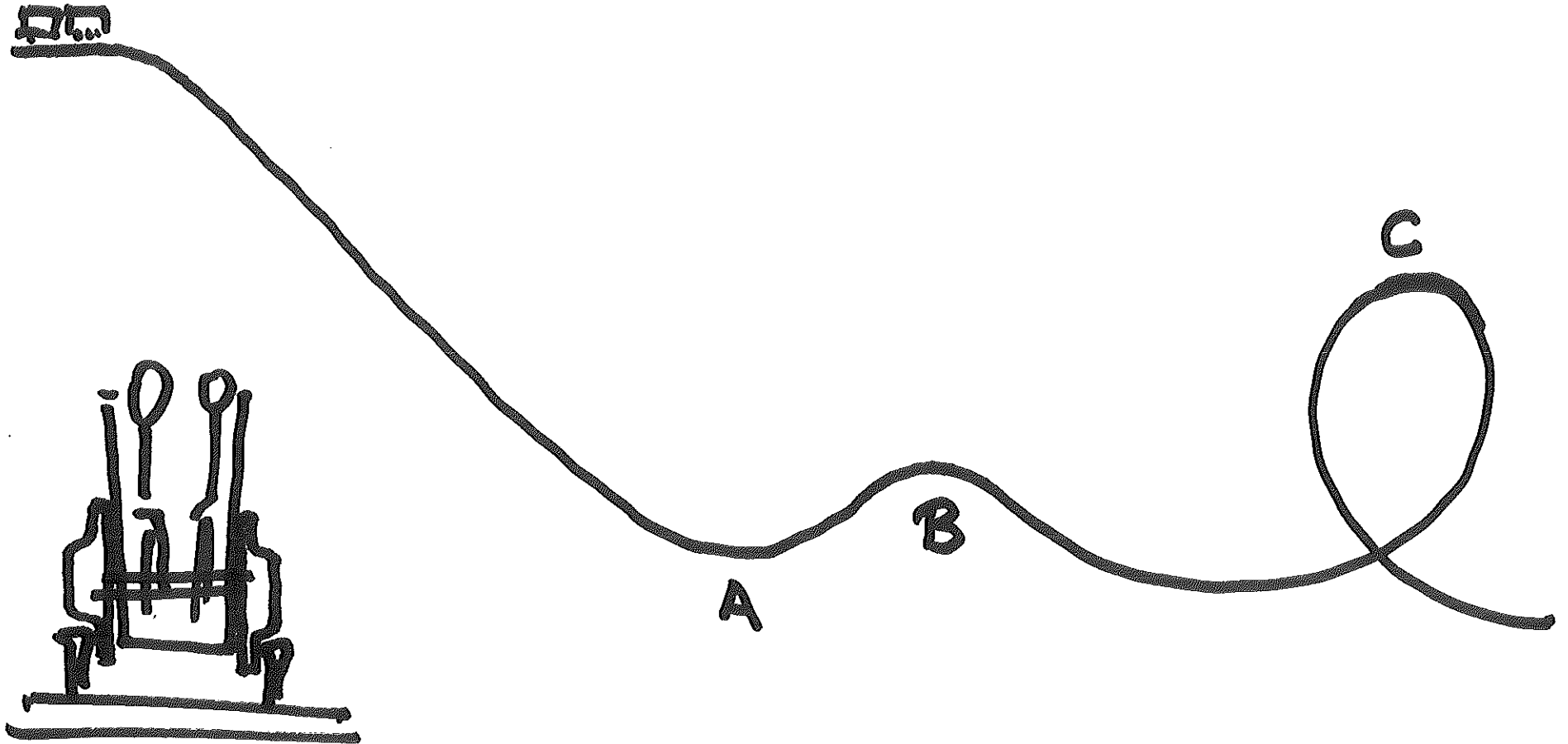
Physics 1

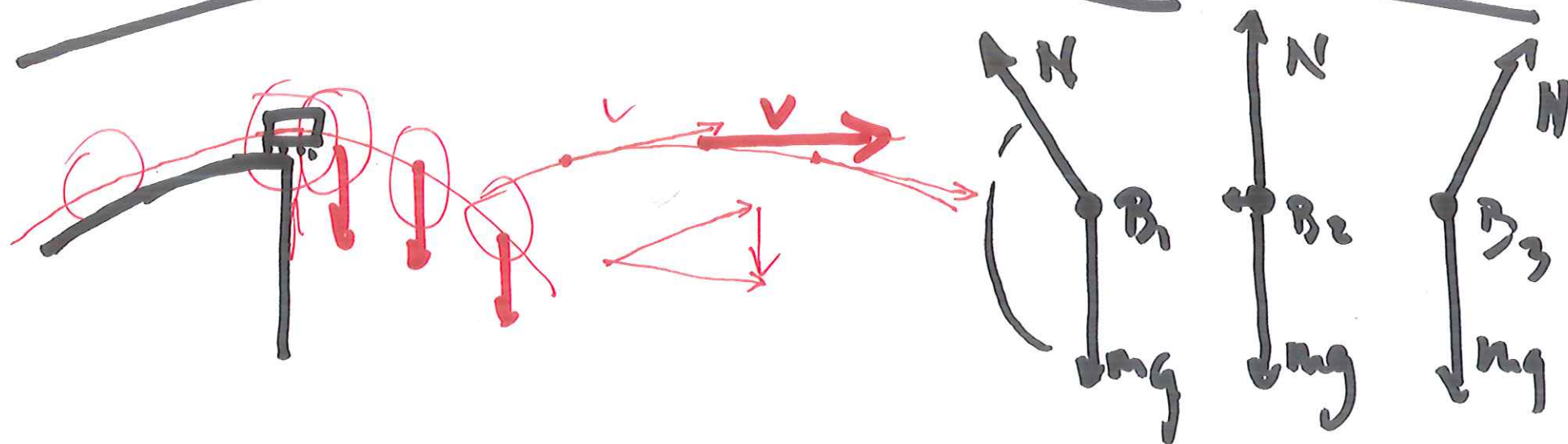
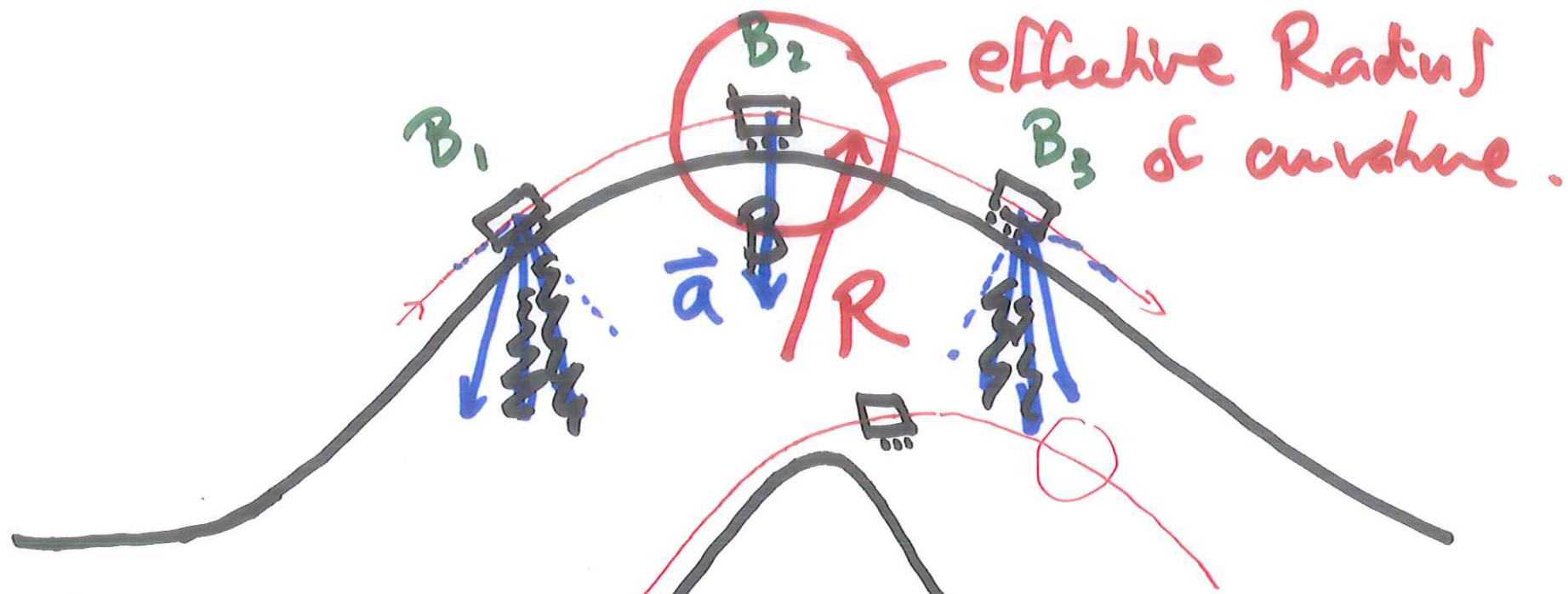
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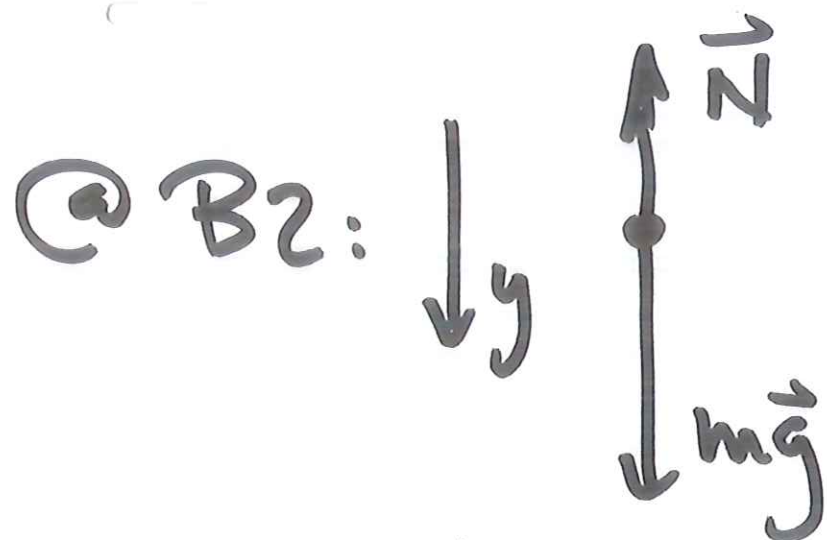
Agenda - Questions.

- How to think about this!
- R.C.D.S.

What is the #1 rule of R.C.D.S.?







$$\downarrow |\vec{a}| = \frac{v^2}{R}$$

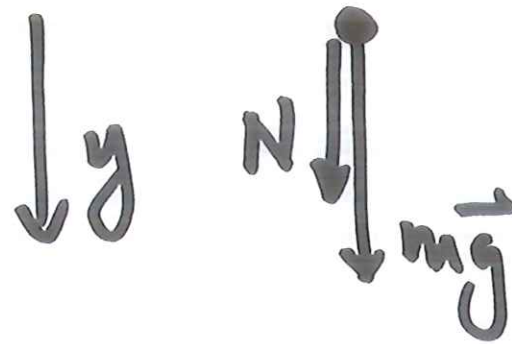
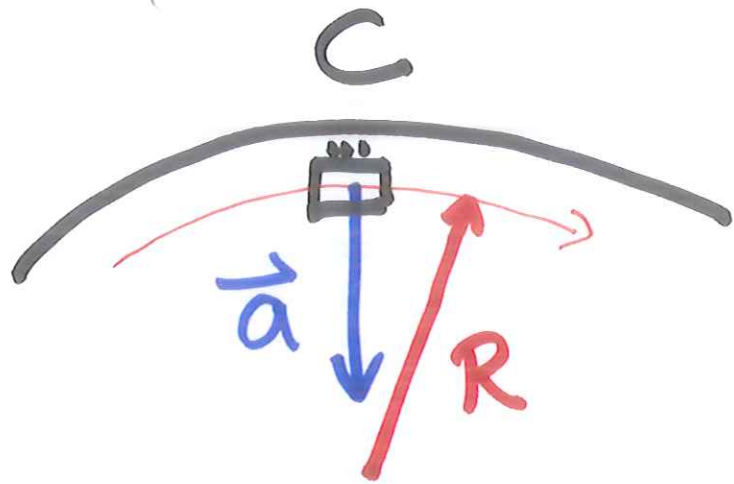
$$mg - |\vec{N}| = \frac{mv^2}{R}$$

~~$$N = |\vec{N}| = \frac{mv^2}{R} - mg$$~~

$$N = mg - \frac{mv^2}{R}$$

~~$$v^2 > Rg$$~~

if v^2 gets too large, $N < 0$
BAD!!



$$mg + N = \frac{mv^2}{R}$$

$$N = \frac{mv^2}{R} - mg$$

$$\cancel{v^2 < Rg}$$

If v^2 gets too small, N goes negative