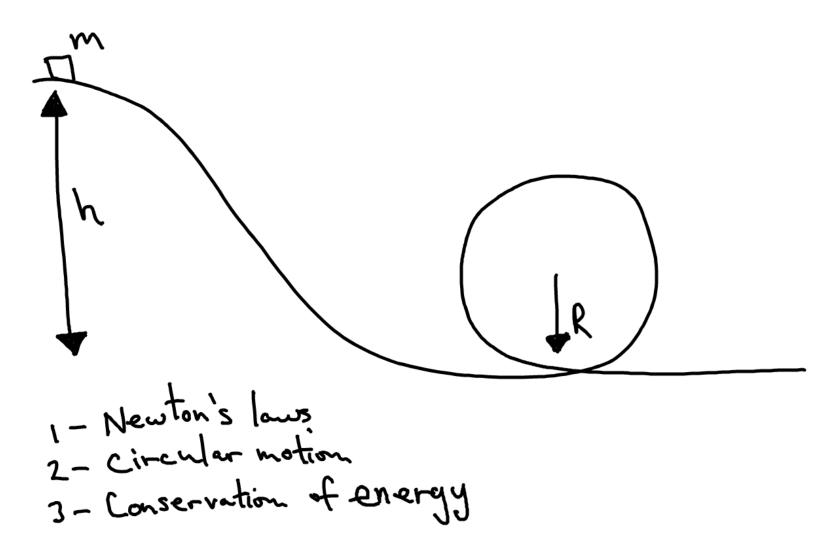
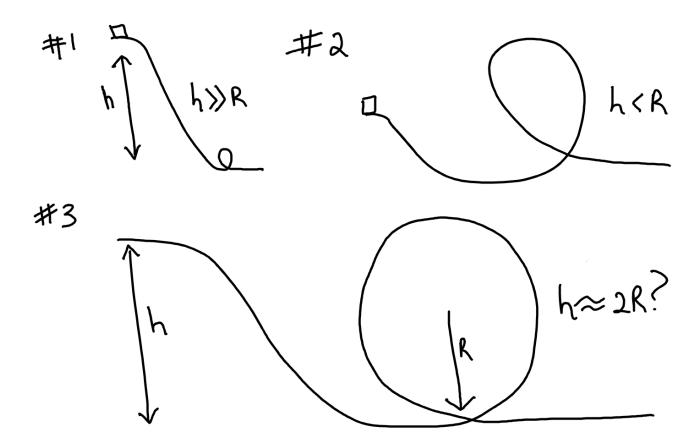
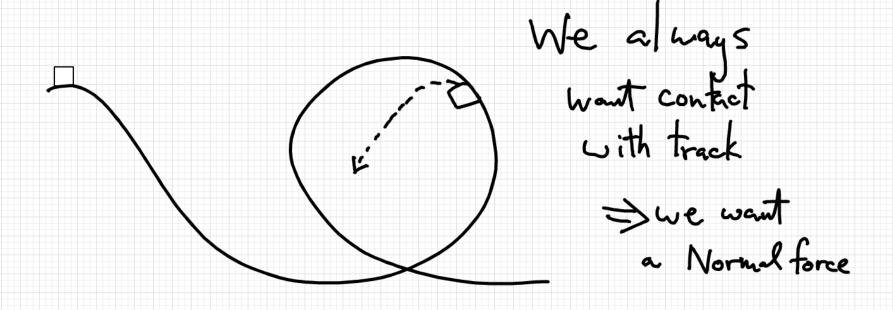
Problem 1: How high must the height of the hill be so that the block makes it safely around the loop-the-loop? Assume height of the hill is h, the block has a mass m and the radius of the loop is R. Find the minimum height?

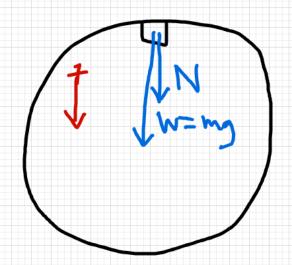




What happens if not enough speed?



Free Body Diagram



ZF=N+mg=ma

> circular metra

$$G_c = \frac{V^2}{R}$$

N+my = mv

$$N = m\left(\frac{\kappa}{\kappa} - 3\right)$$

