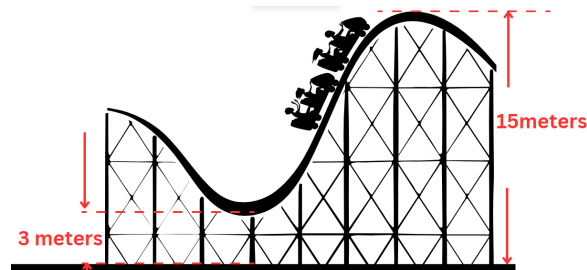# roller coaster b

Question

with the same givens from the previous question. Will the roller coaster make it to the highest point on the track?

Using known expressions:
$p(atthehighestpoint) = mgh$

Given:
$U = 150,000 + 1500 * 3 * 9.81 = 194KJ$
$M = 1500kJ$

Solution:
$p = 1,500 * 9.81 * 15 = 221KJ$ which is higher than the total energy so it will not make it