

Condition on Height of Release (including rotational K.E.)

With the expression for speed at the bottom of the ramp found in Question 5, the new condition on the height of release, so that the ball completes the loop without losing contact with the track is:

a.) $h \geq 5(R - r)$

b.) $h \geq 4(R - r)$

c.) $h \geq 3.5(R - r)$

d.) $h \geq 2(R - r)$

e.) $h \geq (R - r)$