

HITT (only a test)

Checkpoint 2: Disks A and B are identical and roll across a floor with equal speeds. Then disk A rolls up an incline, reaching a maximum height h , and disk B moves up an identical incline except that it is frictionless. Is the maximum height reached by disk B greater than, less than, or equal to h ?

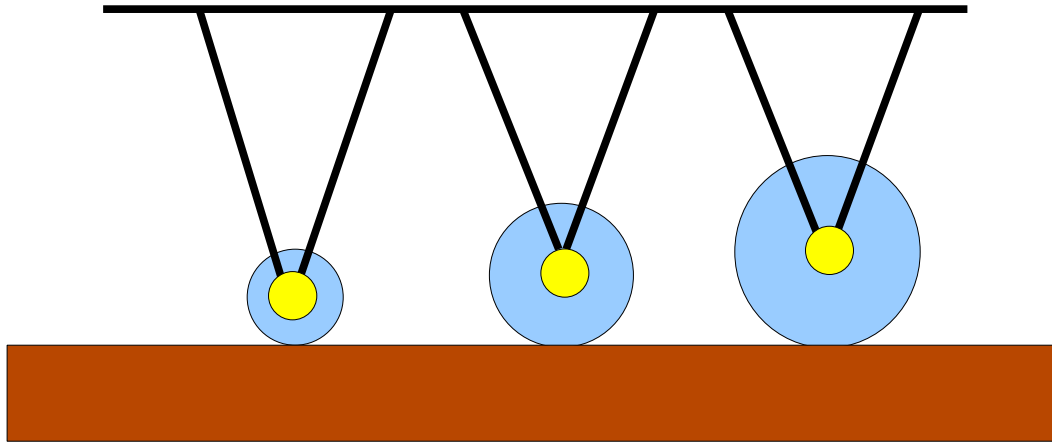
A: Greater

B: Less

C: Equal

HITT 1

Assume three wheels having diameters of 10, 20, and 30cm. The axis of the three wheels are connected as shown in the drawing:



When this 'trike' moves to the right, what is the ratio between the linear speeds at the very top of each wheel starting with the 10cm wheel?

A: 9:4:1

C: 1:1:1

E: 1:4:9

B: 3:2:1

D: 1:2:3