

Problems discussed in the videos:

Videos (1)-(2)

“Question 85” (we discussed this problem but did not work it out):

A sphere with a radius of 15 cm rolls on a level surface with a constant angular speed of 10 rad/s. To what height on a  $30^\circ$  inclined plane will the sphere roll before coming to rest? (Neglect frictional losses.)

Videos (2)-(6)

Here is the problem we worked through in the video:

A solid cylinder with radius 5m rolls down an inclined plane of length 10m. The plane is at a  $20^\circ$  angle. What will the cylinder's speed be at the bottom of the plane? (I should have said that the cylinder rolls without slipping.)