

0 Question: A ball is attached to a pole by a string. The ball is swinging in a circle, and the pole is rotating freely, so that the part of the pole where the string is attached is always facing the ball. Now you stop the pole rotating, so the string starts wrapping around the pole. What happens to the speed of the ball? (ignore effects due to gravity, assume the ball is a point mass)

A1:

A2:

Arguments for A1

1 Question: What is a sensible simulation of this scenario?

A1:

A2:

2 Question: What does that simulation say about how the speed changes?

A1:

A2:

Arguments for A2

No arguments