

The figure shows a frictionless channel in the shape of a segment of a circle with the center at **O**. The channel has been anchored to a frictionless horizontal table top. You are looking down at the table. Forces exerted by the air are negligible.

A ball is shot at high speed into the channel at **p** and exits at **r**.

Which path in the figure would the ball most closely follow after it exits the channel at **r** and moves across the frictionless table top?

