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, and assume the ball is a point mass)			
	A1: It's unclear, there's an argument it speeds up and an argument it stays constant		A2: It remains constant	
	Argumen	ts for A1	Arguments for A2	
2	Question: Is there an argument that it speeds up based on approximate conservation of angular momentum?		Question: Is the only force acting on the ball is tension from the string? A1: Yes, it seems likely A2: Yes	
	A1: Yes	A2: Yes	A1. 165, it seems likely	AZ. 165
3	Question: Is there an argument that the speed stays constant based on approximate conservation of energy?		Question: Is the Tension always perpendicular to the direction of motion of the ball? A1: Probably, it's not entirely clear A2: Yes	
	A1: Yes	A2: Yes	ATT TODADIY, ITS TIOL CHILICIY CICAL	AZ. 103
7	Question: Do these arguments use similar levels of approximation?		8 Question: Given the only force on the ball is perpendicular to it, does this imply that the speed does not change?	
	A1: Yes	A2: No	A1: Yes, very likely	A2: Yes