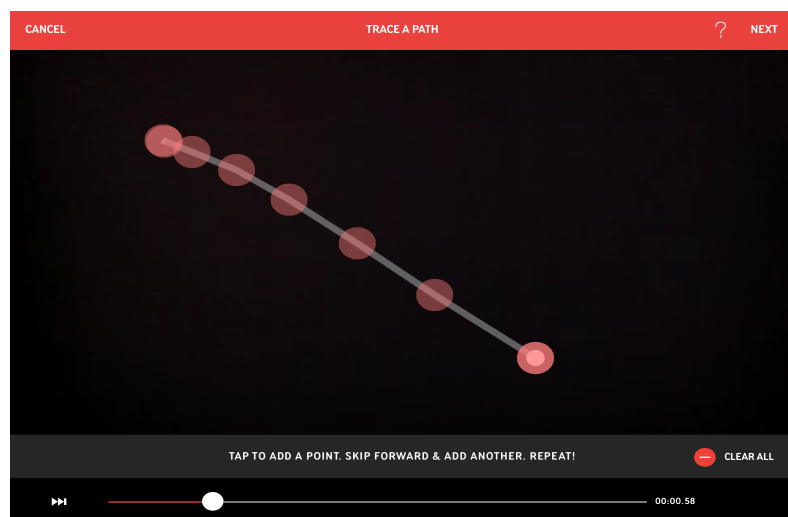


Name: _____ Date: _____

Selina used the Playground Physics app to take a video of a ball rolling. After recording, she touched the screen where the ball started moving to add a point and then skipped ahead by pressing the **▶▶** button once. Then she added another point where the ball was and touched **▶▶** again. She continued to do this for the entire length of time while the ball was moving. This is the path of the ball:



Selina challenged her friends to guess what the ball was doing. This is what they said:

- Mark: The path shows that the ball started out rolling slowly, then rolled faster and continued to roll at that same speed.
- Tania: The path shows that the ball started out rolling fast, slowed down, and then continued to roll at the same, steady speed.
- Claire: The path shows that the ball started rolling really slowly and then went faster and faster.
- Antonio: The path shows that the ball started out rolling really fast, then slowed down and went slower and slower.

Who do you agree with? _____

MOTION: FOUR CORNERS

In the space below explain why you think that is the best answer. Why are Selina's other friends wrong?