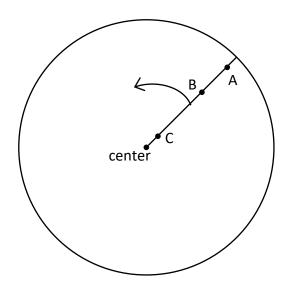
Astronomy Ranking Task: Dark Matter

Exercise #1

Description: Below is a rigid circular disk with its center labeled. Three points (A, B, and C) are labeled along a radius of the disk. The disk rotates counterclockwise about the center as indicated by the arrow.



A. Ranking instructions: Rank the lengths of the rotational periods of each point.
Ranking Order: Shortest 1 2 3 Longest
Or, all the points have the same rotational period (indicate with a check mark)
Or, there is not enough information to determine the lengths of the rotational periods (indicate with a check mark)
Carefully explain your reasoning for ranking this way:

B. Ranking instructions: Rank the rotational speeds of the points.
Ranking Order: Slowest 1 2 3 Fastest
Or, all the points rotate with the same speed (indicate with a check mark)
Or, there is not enough information to determine the rotational speeds (indicate with a check mark)
Carefully explain your reasoning for ranking this way: