

Rolling Into Radians: Questions

NAME _____

1. Compare the two graphs your group produced. Identify at least one way the graphs are alike and at least one way the graphs are different.
2. Your Graphic Artist should draw a smooth curve through the dots on both graphs if he/she has not already done so. Explain why a smooth curve makes sense for this graph.
3. Your group should be able to identify a pattern in the data. Extend the pattern to the left on both graphs. What would the negative values on the horizontal axis represent in the context of the can rolling on the table or floor?
4. How would your first graph have been different if you had used a truck tire instead of a can? How would it have been different if you had measured using different units?
5. The period of a function is the shortest horizontal distance on the graph over which the entire pattern repeats. What is the period of your first graph (use the axes on your graph to estimate)? What are the units of the period?

