A year 12 class is exploring trigonometric functions using GeoGebra. The teacher asks the students to plot a few graphs using the software. After a few examples, he asks:

“Can you graph \( \sin 2x \) using Geogebra?”

Student A types \( f(x) = \sin(2x) \) and produces the following graph:

Student B has also produced a graph but has a question.

**Student B:** I typed \( f(x) = \sin(2x) \). It seems that it is the same curve but the numbers in the x-axis are different. Why is mine different from yours?

You just heard this exchange between student A and student B.

**Questions:**

a. What are the aims of using this activity in class?
b. Do the two graphs differ? If so, how and why?
c. How would you respond to the two students and to the whole class?
d. How would you use the GeoGebra software, or other, in your responses to the above?