Part 2

1. Extend a tape measure on the floor.
2. On a hula hoop, mark a spot with a sticker or marker that will be your starting point
3. Start the hula hoop with the mark at 0” on the tape measurer. Roll the hula hoop along the tape measure, stopping every 6 inches. At each stopping point, record the height of the hula hoop mark above the ground, and the total distance traveled. Record the information in the table below

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| Total Distance (in) | Height Above Ground (in) |
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1. Make a scatter plot that shows height vs. total distance



5. Find an equation that best fits your data and draw it on the scatter plot above in a different color

6. What does the period represent in your equation?

7. What does the amplitude represent in your equation?