Algebra II: Homework #1: Hailstone Sequences

Due Wednesday, June 11th at the beginning of class

Every Hailstone sequence that we have done in class has eventually ended in 1. Your assignment is to calculate the Hailstone sequence of five numbers that we have not yet explored in class. Make sure that your number is in the given interval. Show all of your work, attach any scratch paper (if needed):

1) Choose a number between 10 and 20:

2) Choose a number between 20 and 30:

3) Choose a number between 30 and 40:
4) Choose a number between 40 and 50:

5) Choose a number greater than 100:

Follow up questions:

Did all of the numbers you checked eventually reach 1?

Which number had the longest hailstone sequence?

Write some other observation that you made while working on hailstone sequences: