

Part A

1. Find two places where Lucas directly addresses arguments from Turing's paper. Give page numbers and paragraph numbers (based on the journal version of the paper) for both of these locations (e.g. page 121, paragraph 2) .
2. Re-read Turing's discussion of the mathematical objection. Then, for each of the two arguments of Lucas you identified in question 1, decide whether you agree, or disagree with Lucas's argument. Write a two- or three-sentence justification of your decision for each of the two arguments.
3. (Optional, but please make a serious attempt at this question if you finish the first ones early.) Locate a sexist remark in Lucas's paper. What point is Lucas trying to make here? Why would this remark be unacceptable in a paper written today? Why was it acceptable at the time it was written?
4. (Also optional.) Turing's paper also refers to the differences between men and women in several places. Identify at least two of these places. Do you think that Turing's paper is sexist?

Part B

1. Read the excerpt from GEB in which Hofstadter discusses Lucas's paper. What is the main reason that Hofstadter is infuriated by Lucas's paper? Write your answer on a piece of paper, using one or two sentences.
2. Do you agree or disagree with Hofstadter's reaction? Again, justify your answer using two or three written sentences.
3. If you have time, complete the two optional questions in Part A above.