Chapter 2 Take Home Quiz Problem

Answer the following question carefully and using complete sentences. <u>Be sure to use correct vocabulary, to include any pertinent definitions, postulates, and / or theorems, and to answer all parts of the question.</u>

1. Points A , B , and C lie on a line, with AB = 5.7 and BC = 9.2. Janelle says this means that AC = 14.9. Roger says that AC = 3.5. Considering the given information, answer the following questions.

    a. Explain a way in which Janelle could be correct, or indicate why she must be incorrect. Include a diagram along with your written explanation, and be sure to justify your answer. **(5 points)**

    b. Explain a way in which Roger could be correct, or indicate why he must be incorrect. Include a diagram along with your written explanation, and be sure to justify your answer. **(5 points)**