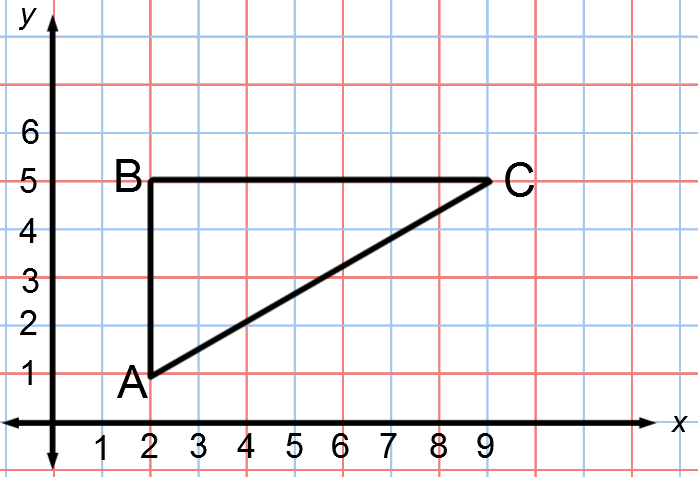
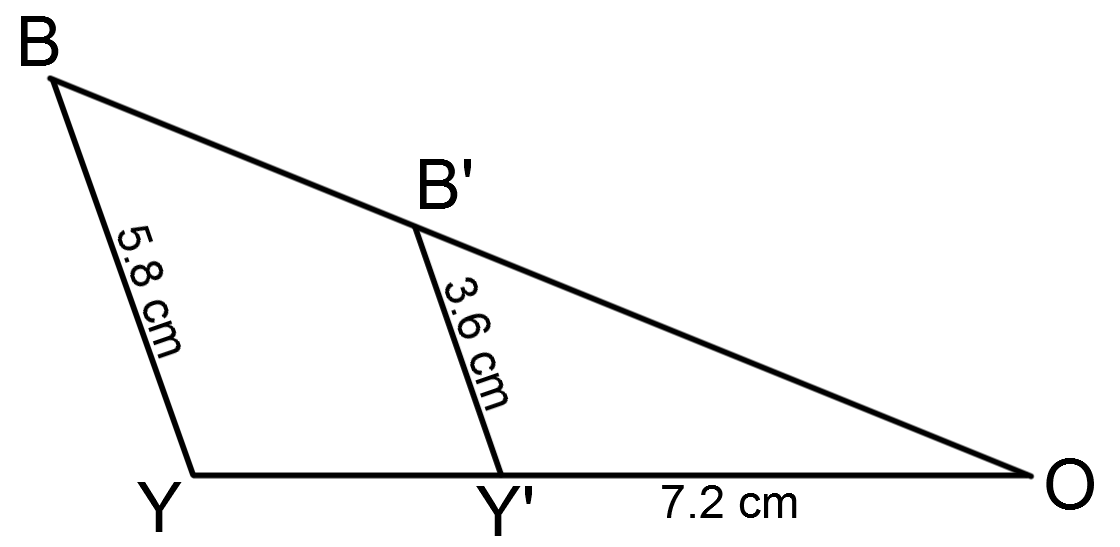
1. Use the diagram below to answer the questions that follow.



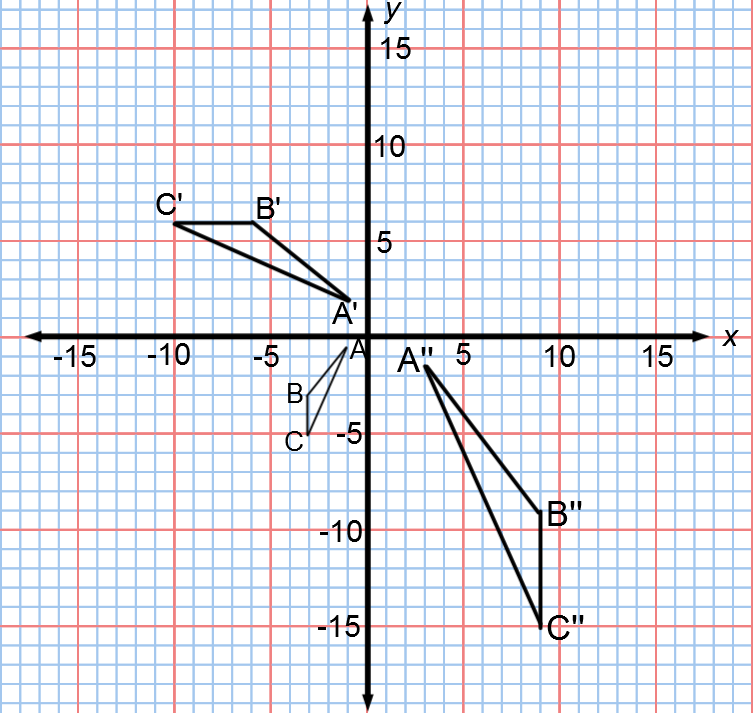
* 1. Dilate from center and scale factor . Label the image .
  2. Find the coordinates of points and .
  3. Are and equal in measure? Explain.
  4. What is the relationship between the segments and ? Explain in terms of similar triangles.
  5. If the length of segment is units, what is the length of segment ? Explain in terms of similar triangles.

1. Use the diagram below to answer the questions that follow. The length of each segment are marked on the diagram. In addition, segment is 14.5 cm.



* 1. Suppose segment is parallel to segment . Is similar to ? Explain.
  2. What is the length of segment ? Show your work.
  3. What is the length of segment ? Show your work.

1. Given and in the diagram below, answer parts (a)–(c).



* 1. Describe the sequence that shows the similarity for and .
  2. Describe the sequence that shows the similarity for and .
  3. Is similar to ? How do you know?