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| with,  and, find the coordinates of image  and label the points,  and are corresponding to the points of pre-image and connect them with different color pencil.    C  B  A | | |
| Find the measures of all three sides of pre-image and image.              Are similar? Explain, | 1. Find slopes of each side of triangle, and then classify the triangle. 2. Base on the pre-image and the image on the grid, are the two triangles similar? Describe the facts that it makes two triangles similar? 3. If the triangles are similar, write congruence statements and proportional statements of similar triangles. | |
| with ,  and, find the coordinates of image  and label the points,  and are corresponding to the points of pre-image and connect them with different color pencil.    **C**  B  A | | |
| Find the measures of all three sides of pre-image and image.              Are similar? Explain,  Summary:  Vocabulary:  **Expansion:** Enlarge figure with same scale factor for every point.  **Contraction:** Shrink figure with same scale factor for every point | | 1. Find slopes of each side of triangle, and then classify the triangle. 2. Base on the pre-image and the image on the grid, are the two triangles similar? Describe the facts that it makes two triangles similar? 3. If the triangles are similar, write congruence statements and proportional statements of similar triangles. |