Dilations: Question 19

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In order to prove that the dilation takes a line passing through the center of the dilation to the same line, we must first visualize the image with respect to the pre-image after the dilation has been performed.

$$A(-2,2), B(1,2), C(1,-1)$$
 (1)

$$D_{O,2.5} \to A, B, C = A'(-5,5), B'(\frac{5}{2},5), C'(\frac{5}{2},-\frac{5}{2})$$
 (2)

The graphic is shown below.

Figure 1: Pre Image and Image of Triangle