

Constructing Translations

1) Use your compass and straightedge to apply $T_{\vec{AB}}$ to segment P_1P_2 .

Steps

- 1) Draw a circle at each vertex of the original image with a radius equal to the length of the ray you are translating with.
- 2) Then measure off from the endpoint of the ray to the first vertex of the original and using this same setting draw an arc with the same radius with its center at the end of the ray. Repeat this process for each vertex in the original image.
- 3) Connect the vertices of the image as in the original image.

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2) Use your compass and straightedge to apply $T_{\vec{AB}}$ to $\triangle P_1P_2P_3$.

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3) Use your compass and straightedge to apply $T_{\vec{AB}}$ to the circle below (center P_1 , radius $\overline{P_1P_2}$).

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4) Use your compass and straightedge to apply $T_{\vec{AB}}$ to $\triangle P_1P_2P_3$.

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