Lesson Summary

Dilations map circles to circles and ellipses to ellipses.

If a figure is dilated by scale factor , we must dilate it by a scale factor of to bring the dilated figure back to the original size. For example, if a scale factor is , then to bring a dilated figure back to the original size, we must dilate it by a scale factor .

Problem Set

1. Dilate the figure from center by a scale factor . Make sure to use enough points to make a good image of the original figure.

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1. Describe the process for selecting points when dilating a curved figure.
2. A triangle was dilated from center by a scale factor of . What scale factor would shrink the dilated figure back to the original size?
3. A figure has been dilated from center by a scale factor of . What scale factor would shrink the dilated figure back to the original size?
4. A figure has been dilated from center by a scale factor of . What scale factor would magnify the dilated figure back to the original size?