Lesson Summary

Dilation has a multiplicative effect on the coordinates of a point in the plane. Given a point in the plane, a dilation from the origin with scale factor moves the point to

For example, if a point in the plane is dilated from the origin by a scale factor of , then the coordinates of the dilated point are

Problem Set

1. Triangle is shown on the coordinate plane below. The triangle is dilated from the origin by scale factor . Identify the coordinates of the dilated triangle .

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1. The triangle has coordinates ,, and . The triangle is dilated from the origin by a scale factor . Identify the coordinates of the dilated triangle .
2. Figure is shown on the coordinate plane below. The figure is dilated from the origin by scale factor . Identify the coordinates of the dilated figure , and then draw and label figure on the coordinate plane.

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1. Figure has coordinates , ,, and . The figure is dilated from the origin by scale factor Identify the coordinates of the dilated figure