# Geometry

## 4.6 Similarity and Transformations

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**Similar figures**

- Same _____; different _____

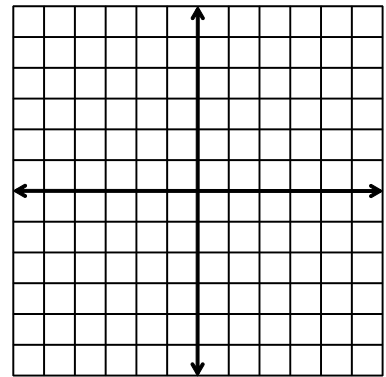**Similarity Transformation**
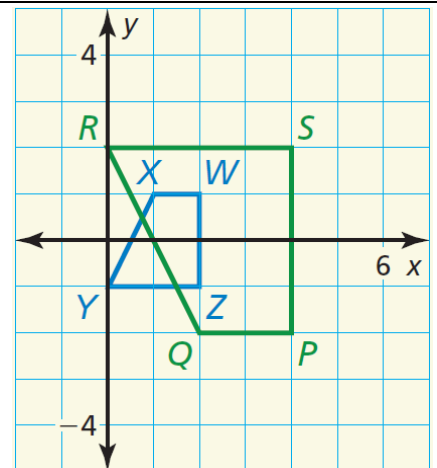
- _____ or
- _____ of _____ and another transformation

Graph △$ABC$ with vertices $A(12, -6)$, $B(0, -3)$, and $C(3, -9)$ and its image after the similarity transformation.

**Reflection:** in the $y$-axis

**Dilation:** $(x, y) \rightarrow \left(\frac{1}{3}x, \frac{1}{3}y\right)$

Describe a similarity transformation that maps trapezoid $WXYZ$ to trapezoid $PQRS$.

Assignment: 211 #2, 4, 6, 8, 10, 13, 14, 16, 17, 19, 21, 22, 23, 24, 28 = 15