REVIEW: Similar Figures

Similar figures are the same shape, but not necessarily the same size.

Skill Example



A similarity transformation is to rotate the red figure 90° counterclockwise about the origin, and then translate the image 2 units to the right.

Visual Model

Name

Two figures are similar when one can be obtained from the other by a similarity transformation.



Application Example

2. The flags are similar. How long is the smaller flag? 60 in.

 $\frac{60}{30} = \frac{100}{x}$ x = 50



The smaller flag is 50 inches long.

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Decide whether the two figures are similar.

- **3.** Triangle A: (1, 4), (3, 5), (4, 2) Triangle B: (0, 5), (4, 7), (6, 1)
- **4.** Quadrilateral A: (-4, -2), (-2, 2), (2, -4), (-2, -4)Quadrilateral B: (2, 2), (1, -1), (-1, 3), (1, 3)
- 5. TENNIS COURTS Are the two tennis courts similar? Explain.



6. TENNIS COURTS A scale model of the doubles tennis court is 0.52 foot long. What is the width of the model?