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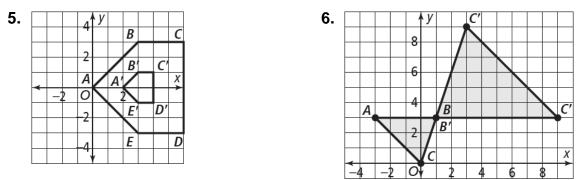
## 7-2 Additional Practice

Similarity Transformations

## What are the vertices of each image?

- **1.**  $(D_{0.75} \circ T_{(-3, 2)})(\triangle ABC)$ , given A(4, -3), B(6, 1), C(10, -1)
- **2.** (*R*<sub>x-axis</sub> ∘ *r*<sub>270°</sub> ∘ *D*<sub>2</sub>)(△*XYZ*), given *X*(6, 8), *Y*(3, 4), *Z*(5, −1)
- **3.**  $(T_{(5, -2)} \circ R_{y-axis} \circ D_{0.5})(ABCD)$ , given A(2, 6), B(5, 7), C(8, 5), D(4, 2)
- **4.**  $(T_{(-1, 4)} \circ D_{(2,P)})(\triangle ABC)$ , given A(-2, 1), B(2, 5), C(-2, 4), P(-4, 2)

## Describe the similarity transformations and write the composition of transformations.



- 7. Luke says that the scale factor relating two figures is 0.6. Paula says the scale factor is  $\frac{5}{3}$ . If Paula is correct, explain why Luke is incorrect.
- Carmen has a sign with dimensions 5 ft × 7.5 ft. She wants to reduce it to make a postcard. Postcard sizes are 3.5 in. × 5 in., 4 in. × 6 in., and 4.25 in. × 6 in. Which size postcard should she use? Explain.