### Lesson 6 Practice Problems

1. Here is Trapezoid A in the coordinate plane:
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	1. Draw Polygon B, the image of A, using the $y$-axis as the line of reflection.
	2. Draw Polygon C, the image of B, using the $x$-axis as the line of reflection.
	3. Draw Polygon D, the image of C, using the $x$-axis as the line of reflection.
1. The point $\left(-4,1\right)$ is rotated 180 degrees counterclockwise using center $\left(-3,0\right)$. What are the coordinates of the image?
	1. $\left(-5,-2\right)$
	2. $\left(-4,-1\right)$
	3. $\left(-2,-1\right)$
	4. $\left(4,-1\right)$
2. Describe a sequence of transformations for which Triangle B is the image of Triangle A.
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1. Here is quadrilateral $ABCD$.
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* Draw the image of quadrilateral $ABCD$ after each transformation.
	1. The translation that takes $B$ to $D$.
	2. The reflection over segment $BC$.
	3. The rotation about point $A$ by angle $DAB$, counterclockwise.
* (From Unit 1, Lesson 2.)



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