## Unit 1 Lesson 5 Cumulative Practice Problems

1. Here is Trapezoid A in the coordinate plane:
* 
	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 $(-4,1)$ is rotated 180 degrees counterclockwise using center $(-3,0)$. What are the coordinates of the image?
	1. $(-5,-2)$
	2. $(-4,-1)$
	3. $(-2,-1)$
	4. $(4,-1)$
2. Describe a sequence of transformations for which Triangle B is the image of Triangle A.
* 
1. Here is quadrilateral $ABCD$.
* 
*
* 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.)



© CC BY Open Up Resources. Adaptations CC BY IM.