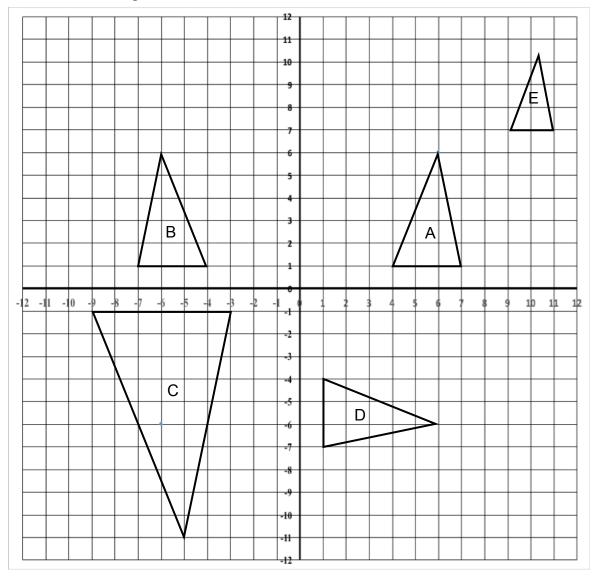
Mapping Triangles

Vanessa drew five triangles on a coordinate plane. She labeled each triangle with letters A through E. The vertices of Triangle A are (4, 1), (6, 6), and (7, 1).



1. What is the area of Triangle A? ______ square units Show how you figured it out.

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Triangle A	A is congruent to Triangle B.	
2.	Describe a transformation that maps Triangle A to Triangle B.	
	List the corresponding vertices between the two triangles.	
Triangle A	A is similar to Triangle C.	
3.	Describe the set of transformations that could verify that they are similar.	
_		
Triangle A	A can be rotated about the origin to show that it is congruent to Triangle D.	
4	What is the direction and angle of the rotation?	
	How do you know for sure?	
Triangle A	A maps to Triangle E through a dilation.	
5.	What is the scale factor of the dilation?	
	What is the area of Triangle E? Show how you figured it out.	square units

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