	ne: metry // Mr. Falci	Date:	
1.	Which transformation(s) are direct isometries?		
2.	Which transformation(s) are opposite isometries?		
3.	Which transformation(s) are not isometries?		
4.	Which properties are preserved in a rotation? (mark all that apply)		
	(1) parallelism	(3) angle measure	
	(2) distance	(4) orientation	
5.	Which properties are preserved in a dilation? (mark all that apply)		
	(1) parallelism	(3) angle measure	
	(2) distance	(4) orientation	
6.	Which properties are <i>not</i> preserved in a <i>reflection</i> ? (mark all that apply		
	(1) parallelism	(3) angle measure	
	(2) distance	(4) orientation	

7. Triangle ABC has coordinates A(1,1), B(5,1), and C(4,3). Given the transformations T, U, and W described below:

T:
$$(x,y) \rightarrow (x,-y)$$

U: $(x,y) \rightarrow (x-6,y+6)$
W: $(x,y) \rightarrow (-2x,-2y)$

- a. Graph ABC and graph and state the coordinates of its image A'B'C', after transformation T.
- b. Graph and state the coordinates of A''B''C'', the image of ABC after transformation U.
- c. Graph and state the coordinates of A"B"C", the image of ABC after transformation W.
- d. Which transformation, T, U, or W, is not an isometry?

e. Which transformation, T, U, or W, does not preserve orientation?

