Geometry R – Mr. Bo Unit 2B – Day 4 HW

Name			
Date_	 	_	

1. Graph and label the image of $\triangle ABC$ under each sequence of rigid motions.



2. For each sequence of rigid motions in #1, precisely describe a single rigid motion that results in the same transformation. Write your answers on the lines below. If a single rigid motion does not exist, write "Not Possible".

1a	1c
1b	1d

3. Choose one transformation from #1 and explain why it is or is not an Isometry.

4. Precisely describe a sequence of rigid motions that maps $\triangle ABC$ onto $\triangle CDE$. Sketch the resulting triangle for each rigid motion in the sequence.



5. Precisely describe a sequence of rigid motions that maps ΔABC onto ΔECD . Sketch the resulting triangle for each rigid motion in the sequence.



5. Point P is the **image** of points A,B,C,D, and E under each of the following transformations. Graph and label the points A, B, C, D, and E. *(Mixed Review)*



6. Use a compass and straight edge to reflect P over \overline{RS} . (mixed review)



7. Use a compass and protractor to rotate \overline{RS} 135 degrees counter-clockwise around P. (*mixed review*)

