3.5 Name (print first and last)	Per Date: 10/10	due 10/11
3.5 Rigid Transformations: Rotations SLO: I can rotate figures and critique the rotations of others.	Geometry Regents	2013-2014 Ms. Lomac
(1) Construct the line of reflection for the images below.		
(2) \square From lesson 3.3, we determined that to perform a specific rotation,	we need to know the	,
, and	of the rotation.	
 (3) To perform rotations, lets look at each part of a rotation separately. (a) CENTER: Show all of the images that can be made by rotating 	oint P around the center of	f rotation O.
۰P		
0•		
☐ (b) When you are showing ALL of the possible images of point P, d Why/why not?	es the direction of the rota	tion matter?
(c) MEASURE (ANGLE): Let's be more specific. On the diagram in point P under a rotation of the angle measure below. 1 st we can	part (a), find point Q such t	hat it is the image of ✓
2 nd we can		
3 rd we can	/	
4 th there is/are point(s) we can construct because		
(d) DIRECTION: Let's be even more specific. Label the points Q_1 a correct. Q_1 is a clockwise/counterclockwise rotation which means it is p	nd Q ₂ . Circle the words to r sitive/negative.	make each sentence
Q ₂ is a clockwise/counterclockwise rotation which means it is p	sitive/negative.	



(6) Find the center of rotation

- (a) \Box Draw a segment connecting points A and A'.
- (b) Using a compass and straightedge, find the perpendicular bisector of this segment.
- (c) \Box Draw a segment connecting points *B* and *B'*.
- (d) Find the perpendicular bisector of this segment.
- (e) Label the point where the perpendicular bisectors intersect point R.
- (f) Point R is the

(Use tracing paper to check the rotation)





(2) \square Rotate $\triangle ABC - 90^{\circ}$ around point F (use the corner of a piece of paper to measure 90°)



