Name:		
UNIT 2		

AIM: HOW DO WE EVALUATE ROTATIONS ON THE COORDINATE PLANE?





CONCLUSION: _____

The combination of a line reflection in the *y*-axis, followed by a line reflection in the *x*-axis, can be renamed as a single transformation of a rotation of 180° about the origin.



CONCLUSION:

14. Describe transformation(s) that maps PQRST onto P'Q'R'S'T'.



(1)_____

(2)_____

15. Which transformation would not carry a square onto itself?

- 1) a reflection over one of its diagonals
- 2) a 90° rotation clockwise about its center
- 3) a 180° rotation about one of its vertices
- 4) a reflection over the perpendicular bisector of one side
- 16. On the set of axes below, rectangle *ABCD* can be proven congruent to rectangle *KLMN* using which transformation?
- 1) rotation
- 2) translation
- 3) reflection over the *x*-axis
- 4) reflection over the *y*-axis



- 17. As shown in the graph below, the quadrilateral is a rectangle. Which transformation would *not* map the rectangle onto itself?
- 1) a reflection over the *x*-axis
- 2) a reflection over the line x = 4
- 3) a rotation of 180° about the origin
- 4) a rotation of 180° about the point (4, 0)



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