Remediation on Rigid Motions

Name_____ Date____Blk____

1. Find the coordinates for the image with the given vertices A(-2,-1), B(0,2), C(0,0), D(1,-1) after the translation $(x, y) \rightarrow (x - 3, y + 2)$. Draw the images.



Draw the result of the composition of Transformations.

3. a. Δ*KLM* has vertices *K*(-2,1), *L*(2,-1), and *M*(-1,-3). Rotate Δ*KLM* 270° Counter Clockwise about the origin and then reflect it across the *x*-axis.



b. Write a generic coordinate for the above transformations

4. □*PQRS* has vertices *P*(1,1), *Q*(3,1), *R*(4,-1), and S(2,-2). Rotate □*PQRS* 180° about the origin and then translate it right 5 units and down 3 units.



b. Write a generic coordinate for the above transformations.

 Reflect the figure with the given vertices across the given line, y = x. A(-5,2), B(4,1), C(-1,-2)



5. ΔSTR has verticies (0,-1), (2, 3), (-3, 4). On graph a) Reflect the figure over line y = 2. On graph b) reflect the figure over x = 1.



6. ΔJKL has vertices (2, 4), (3, -1), (-2, 2). Rotate the figure 270CCW around the center point (1,2).



7. What rotations about its center would a regular pentagon map onto itself from 0 to 360 degrees?



8. Identify or draw three regular polygons that would map onto themselves if rotated 240°.

- 9. How many lines of symmetry does a decagon have? How many does a parallelogram have?
- 10. Draw the lines of symmetry for the following figure

