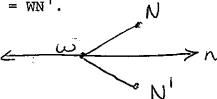
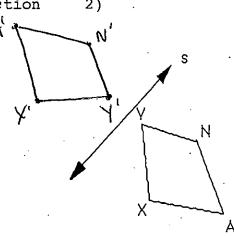
You will need a ruler and Mira for this test

In the space at the right, draw and label a figure so that  $r_m(\overline{WN}) = \overline{WN}'$ .

1)



In the figure at the right, draw the reflection 2) image of VNAX over line s.



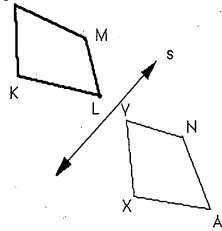
3. Use the figure below. Suppose  $r_s(JKLM) = AXVN$ . Justify the conclusion.

a) Det. of reflection

- a s T KX
- b m ∠KJM = m ∠XAN

b) Angle Measure

PST # 4-10, 136-17, 20-21



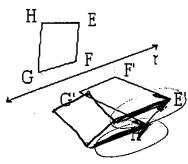
Chapter 4 Review

Give the image of (p,q) when translated by the vector (-9,8).

- 4) (p-9, g+8)
- $\triangle$  RNT has vertices R = (1,6), N = (4,-2), and T = (-10,5). Give the vertices of the reflection image of  $\triangle$ RNT over the x-axis.
- 5) R' = (1, -4) N' = (4, 2)T' = (-10, -5)

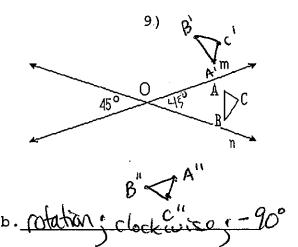
Name the four types of isometries.

- b) reflection
  b) translation
  c) rotation
  d) glide
- 7) True or false All congruence transformations preserve betweenness.
- In the figure at the right, E'F'G'H' is the image 80 of EFGH under a glide refection ro T. Draw the translation vector for T.



## Chapter 4 Review

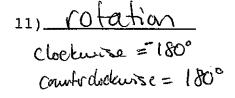
- Use the figure at the right. Draw  $r_n \circ r_m (\triangle ABC)$ .
  - b) Name the transformation performed in Part a and describe its direction and magnitude.



- To translate MN by 3.6 cm, you can reflect it successively across two ? lines where the distance between them is ?.
- b) Parallel
- In the figure below, s ! t and t l r.

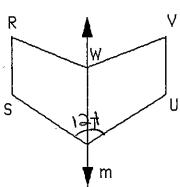
  Name and describe the transformation performed

  if figure A is reflected first over t and then
  that image is reflected over r.



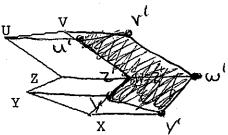
In the figure below,  $r_m(S) = U$ . If  $m \angle STU = 121$ , find  $m \angle STW$ .



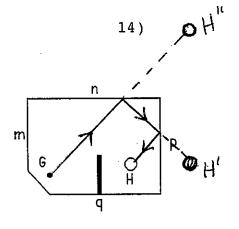


## Chapter 4 Review

In the figure at the right, draw the translation 13) image of UVWXYZ determined by  $\overrightarrow{ZW}$ .



Draw the path golf ball G must follow to carom first off n and then p in order to go into hole H.



Name the type of isometry that maps Figure I onto Figure II.



Figure II

15) <u>a lido</u>

Name the type of isometry that maps Figure I onto Figure II.

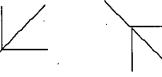


Figure I

Figure II