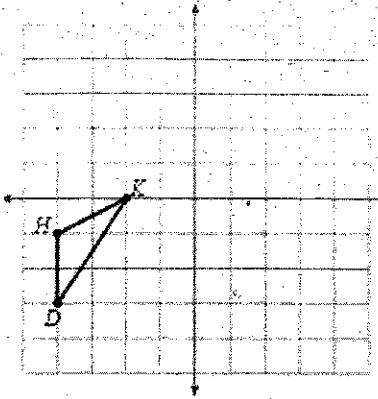
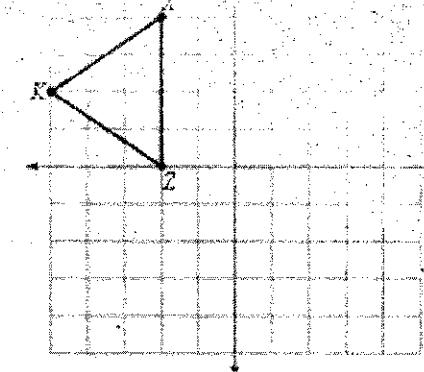
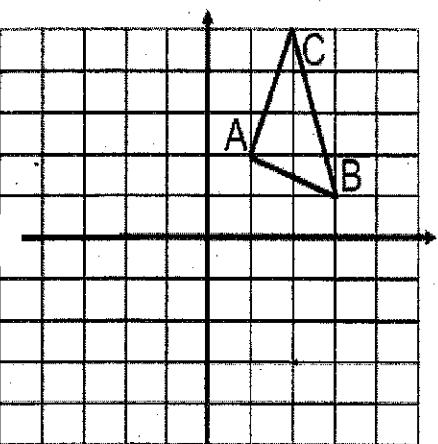
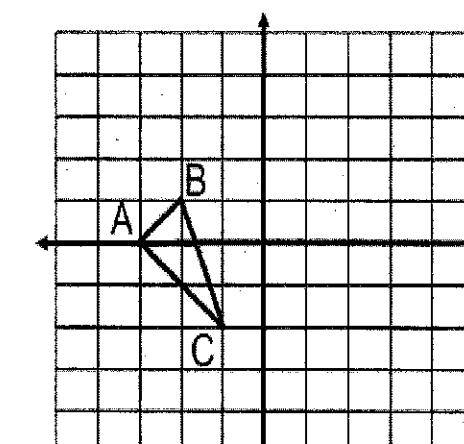


23. $\langle 2, 3 \rangle$ 

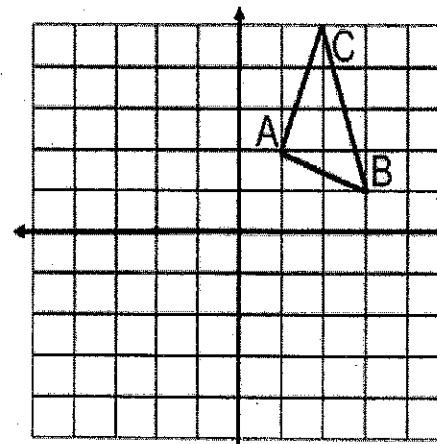
review

24. $(x, y) \rightarrow (x, y - 4)$ **Composition of Transformations**(Label the first transformation with $\Delta A'B'C'$. After the second transformation, label it with $\Delta A''B''C''$.)25. a. R_{180} b. reflection over $y = -1$ 

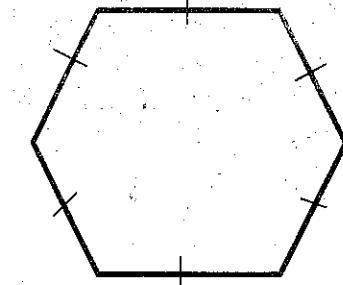
A' _____ A'' _____
 B' _____ B'' _____
 C' _____ C'' _____

26. a. reflection across $y = x$.b. R_{-90} 

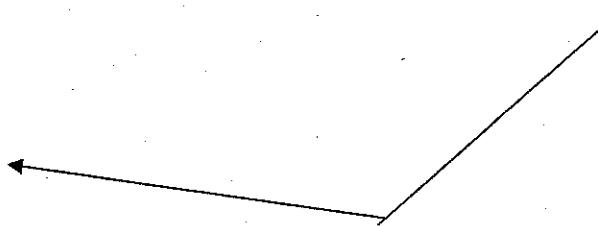
A' _____ A'' _____
 B' _____ B'' _____
 C' _____ C'' _____

27. A. Using the figure at the right, rotate point A
120° counterclockwise about the origin.B. Determine B' after a dilation from point
(-2, -3) with a scale factor of 2.

28. Does the figure below have rotational symmetry? If so, to what order? Degree?

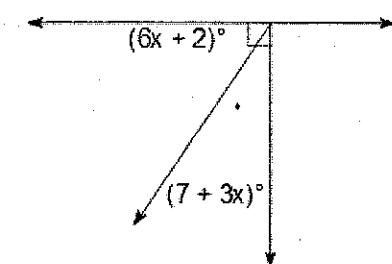


29. Determine the measure of $\angle ABC$

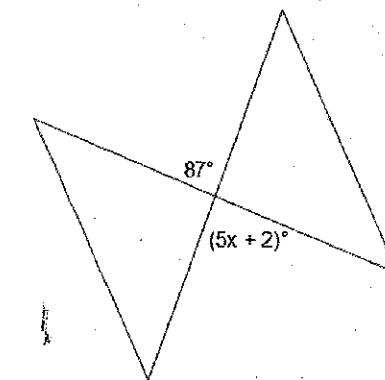


Solve for x.

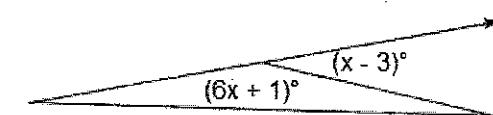
30.



31.

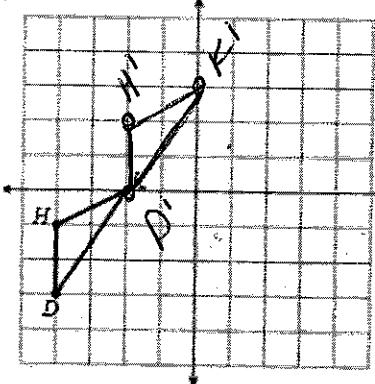


32.

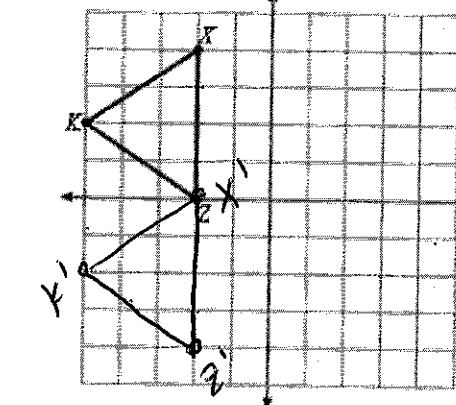


part 2
review

23. $\langle 2, 3 \rangle$



24. $(x, y) \rightarrow (x, y - 4)$

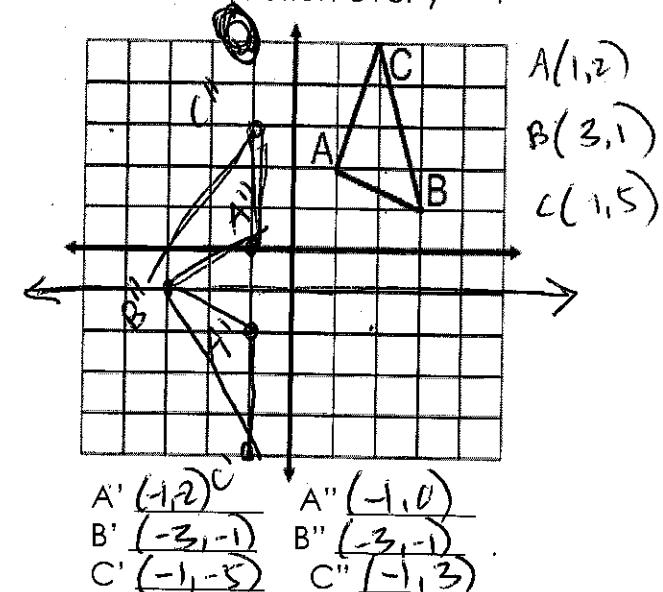


Composition of Transformations

(Label the first transformation with $\Delta A'B'C'$. After the second transformation, label it with $\Delta A''B''C''$.)

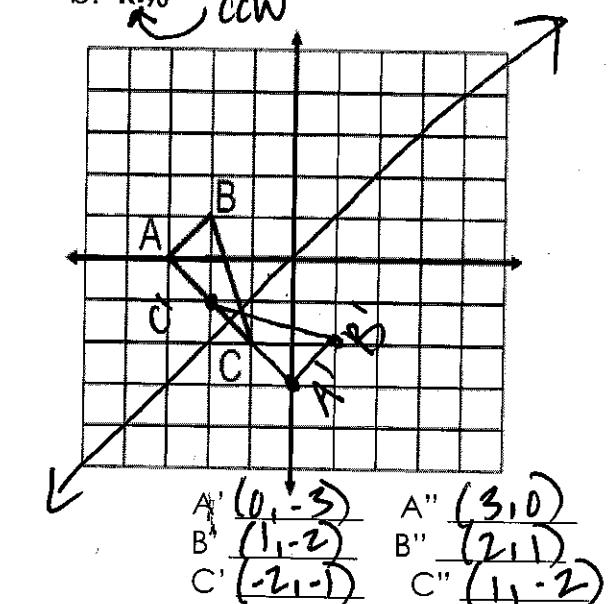
25. a. R_{180}

b. reflection over $y = -1$



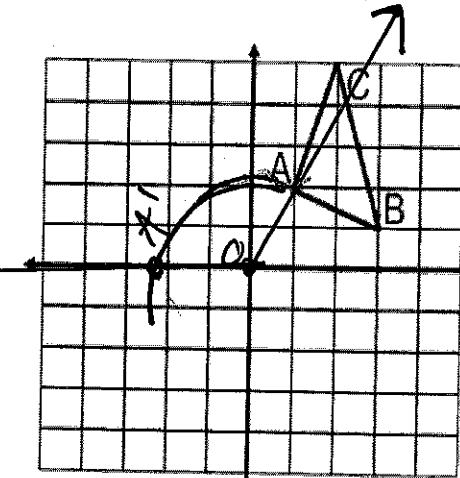
26. a. reflection across $y = x$.

b. R_{90}^{ccw}



27. A. Using the figure at the right, rotate point A 120° counterclockwise about the origin.

-Draw ray from origin to A
-create circle with radius OA

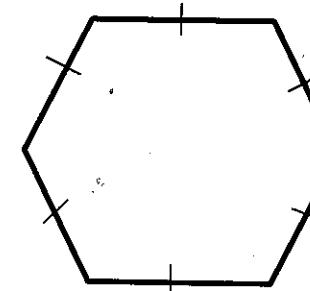


B. Determine B' after a dilation from point (-2, -3) with a scale factor of 2.

$$(x, y) \rightarrow (2x+2, 2y+3)$$

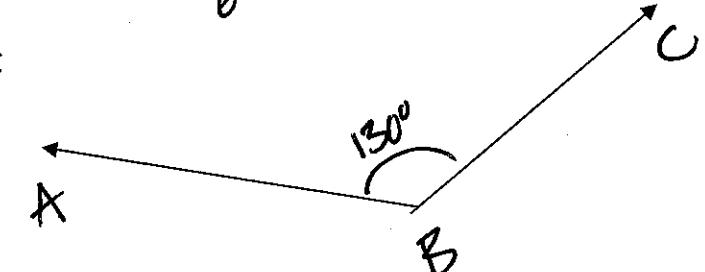
$$B(3, 1) \quad B' \rightarrow (2 \cdot 3 + 2, 2 \cdot 1 + 3) \\ (8, 5)$$

28. Does the figure below have rotational symmetry? If so to what order? Degree?



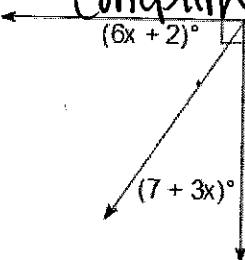
- Yes, 6th order
- Regular hexagon - 6 sides, order b
- $60^\circ = \frac{360}{b}$

29. Determine the measure of $\angle ABC$



Solve for x.

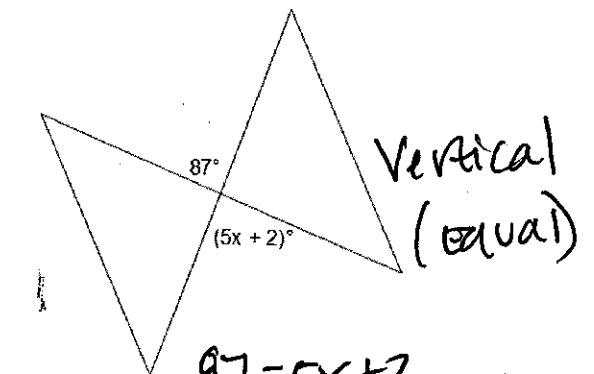
30. Complimentary $= 90^\circ$



$$9x + 9 = 90$$

$$\boxed{x = 9}$$

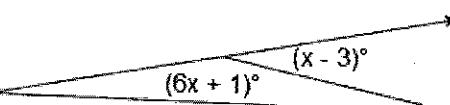
31.



$$87 = 5x + 2$$

$$85 = 5x$$

$$\boxed{x = 17}$$



$$6x + x + 3 - 3 = 180$$

$$7x - 2 = 180$$

$$\boxed{x = 26}$$

Linear pair $= 180^\circ$
(supplementary)