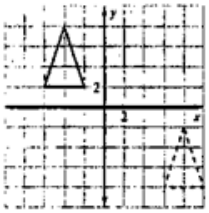
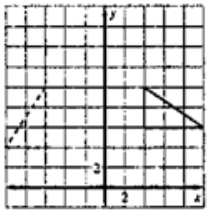
Name _____ Date _____ Hr _____

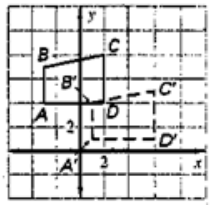
Intro to Transformations HW

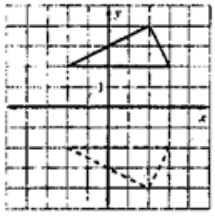
Geometry

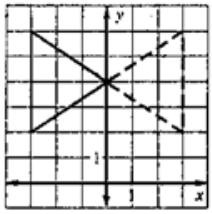
Name the type of transformation shown.

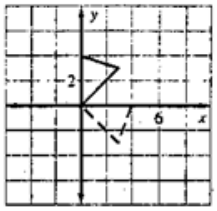
1. 

2. 

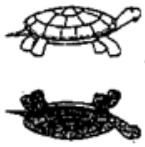
3. 

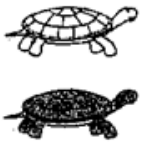
4. 

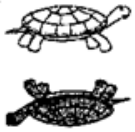
5. 

6. 

Name the transformation that maps the unshaded turtle (preimage) onto the shaded turtle (image).

7. 

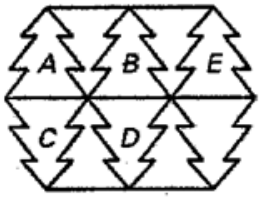
8. 

9. 

In Exercises 10–13, name the transformation that will map Tree *A* onto the indicated tree.

10. Tree *B*

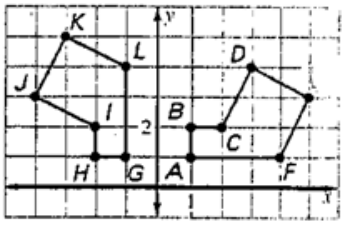
11. Tree *C*



12. Tree *D*

13. Tree *E*

Use the graph of the transformation below. *ABCDEF* is the preimage.



14. Figure $ABCDEF \rightarrow$ Figure _____.

15. Name & describe the transformation.

16. Name the image of $\overline{CD}$. **17.** Name the preimage of $\overline{HI}$.

18. Give the ordered pair of the preimage of point J. (_____, _____)

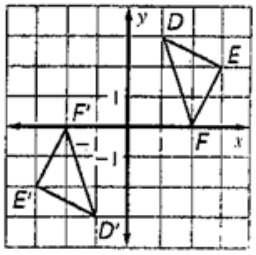
19. Give the ordered pair of the image of point B. (_____, _____)

20. Give the ordered pair of the image of point F. (_____, _____)

21. **a.** ΔDEF is the preimage / image.
ΔD'E'F' is the preimage / image.

b. Name & describe the transformation.

c. Name the coordinates of the vertices of the image.



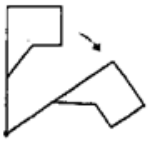
22. Use the coordinate plane to graph the 2 triangles. Then answer the questions.

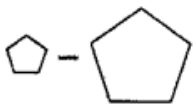
The coordinates of $\triangle JKL$ are $J(1, 1)$, $K(-2, 4)$, $L(-2, -1)$. The coordinates of $\triangle J'K'L'$ are $J'(2, -3)$, $K'(-1, 0)$, $L'(-1, -5)$.

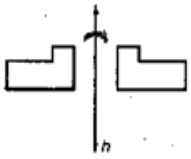
a. Name & describe the transformation.

b. Is it an isometry? Explain.

23. Decide if the diagram illustrates an isometry. If yes, describe it. If no, tell why not.

a. 

b. 

c. 

d.