

Name:

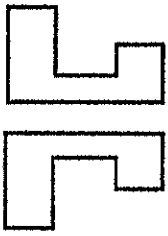
Date:

Period:

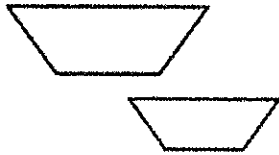
HW #4-8: Test Review

Tell whether each transformation appears to be just a reflection, just a translation, just a rotation, or none of these.

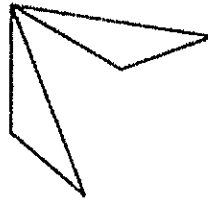
1.



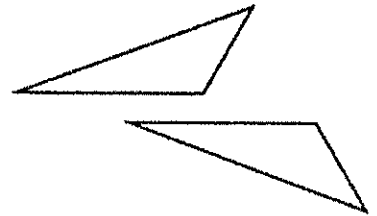
2.



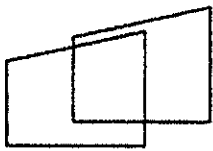
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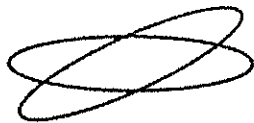
4.



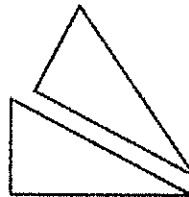
5.



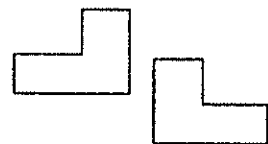
6.



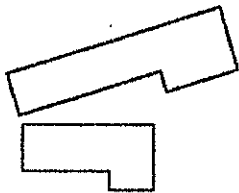
7.



8.



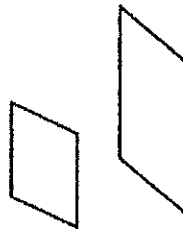
9.



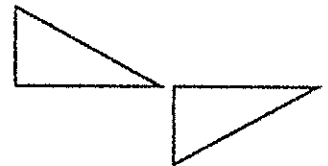
10.



11.



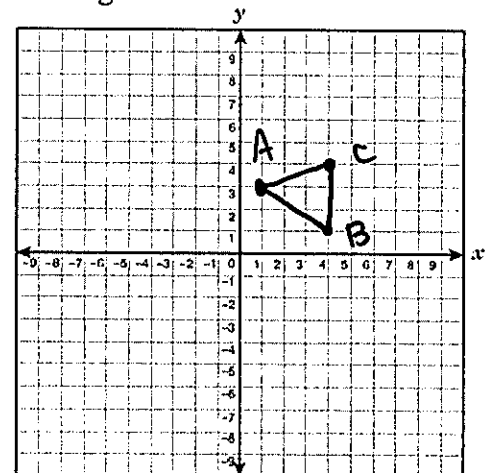
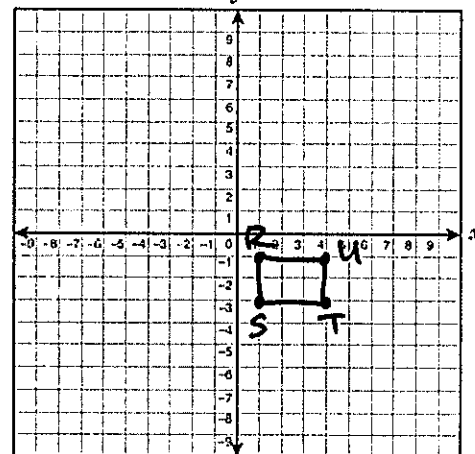
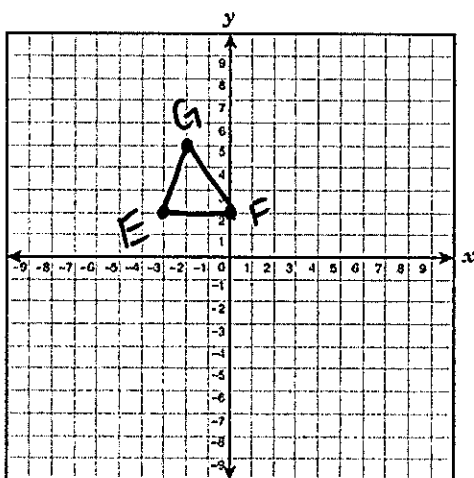
12.



13. Reflect the figure in the x-axis.

14. Translate the figure using the rule $(x, y) \rightarrow (x - 5, y + 2)$

15. Rotate the figure 90° about the origin.



E'(_____, _____)

F'(_____, _____)

G'(_____, _____)

R'(_____, _____)

S'(_____, _____)

T'(_____, _____)

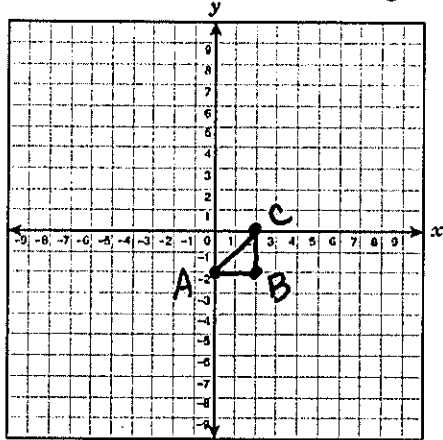
U'(_____, _____)

A'(_____, _____)

B'(_____, _____)

C'(_____, _____)

16. Dilate the figure using scale factor of 2, centered at the origin.

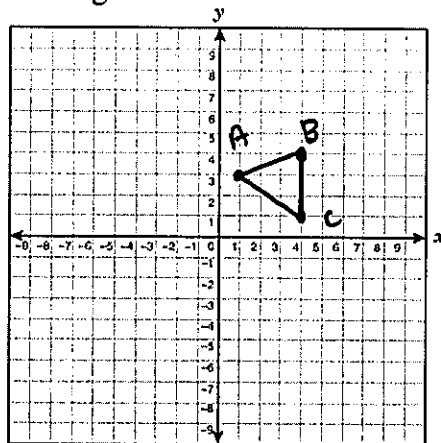


A' (____, ____)

B' (____, ____)

C' (____, ____)

19. Rotate the figure 180° about the origin.

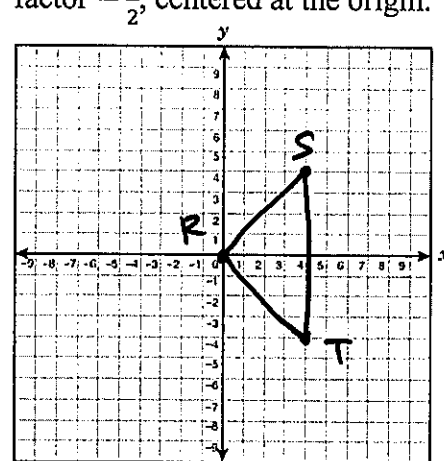


A' (____, ____)

B' (____, ____)

C' (____, ____)

21. Dilate the figure using scale factor $-\frac{1}{2}$, centered at the origin.

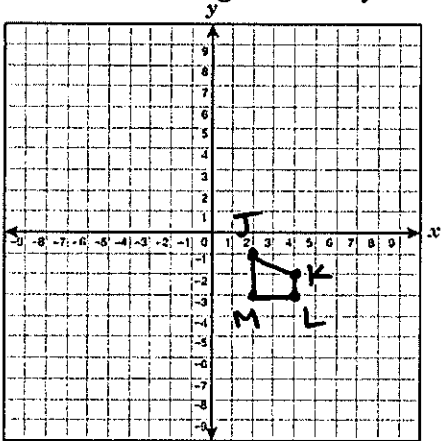


R' (____, ____)

S' (____, ____)

T' (____, ____)

17. Reflect the figure in the y-axis



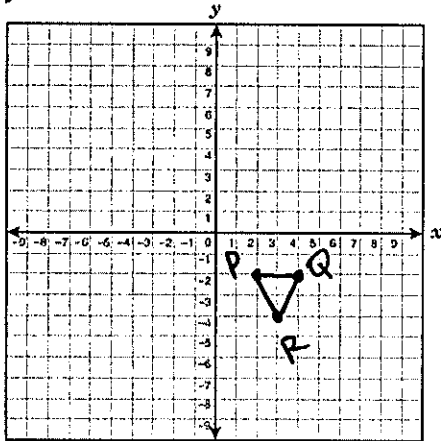
J' (____, ____)

K' (____, ____)

L' (____, ____)

M' (____, ____)

20. Reflect the figure in the line $y = x$

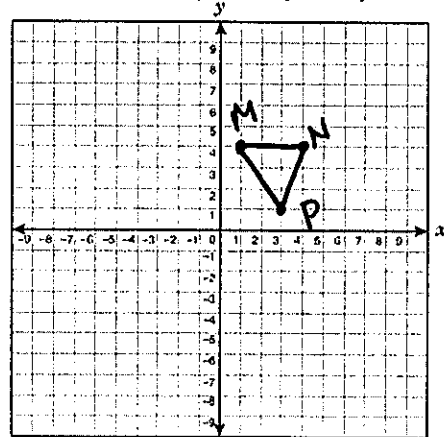


P' (____, ____)

Q' (____, ____)

R' (____, ____)

22. Translate the figure using the rule $(x, y) \rightarrow (x - 3, y - 3)$

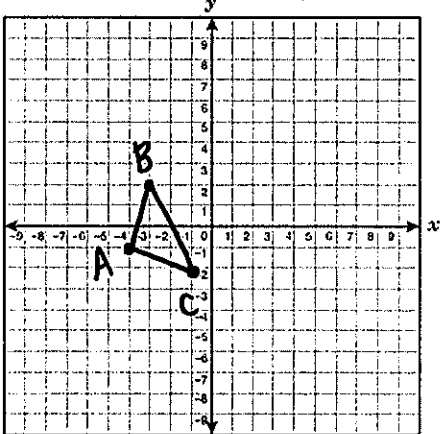


M' (____, ____)

N' (____, ____)

P' (____, ____)

18. Translate the figure using the rule $(x, y) \rightarrow (x + 5, y)$



A' (____, ____)

B' (____, ____)

C' (____, ____)

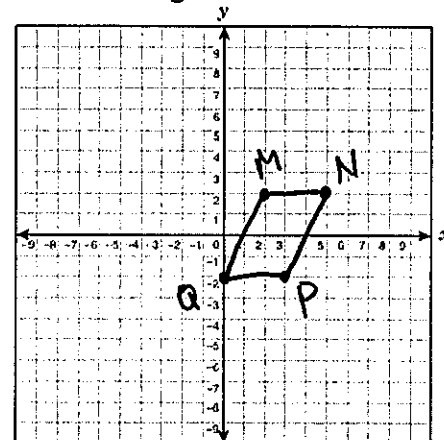
M' (____, ____)

N' (____, ____)

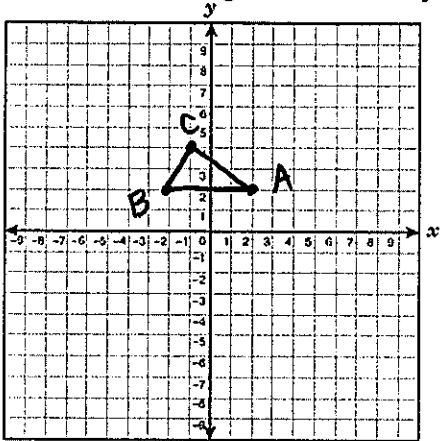
P' (____, ____)

Q' (____, ____)

23. Rotate the figure using 270° about the origin.



24. Reflect the figure in the line $y = -x$

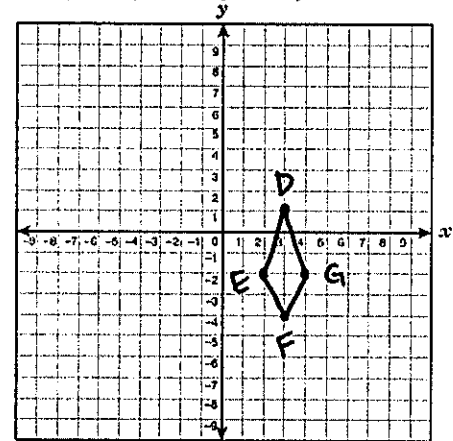


A' (____, ____)

B' (____, ____)

C' (____, ____)

25. Translate the figure using the rule $(x, y) \rightarrow (x - 3, y - 3)$



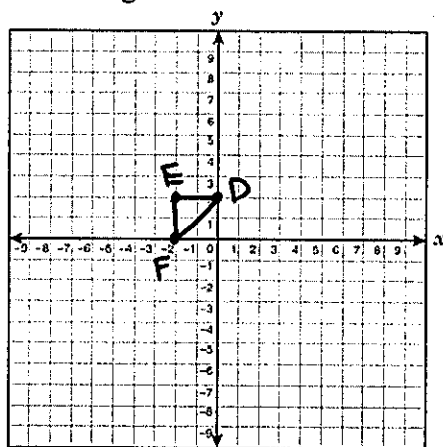
D' (____, ____)

E' (____, ____)

F' (____, ____)

G' (____, ____)

26. Dilate the figure using scale factor of -2, centered at the origin.



D' (____, ____)

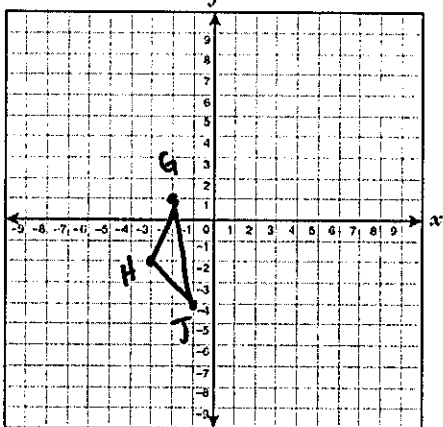
E' (____, ____)

F' (____, ____)

27. Perform the similarity transformation on the figure.

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

Dilation: $(x, y) \rightarrow (-2x, -2y)$



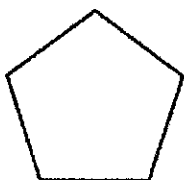
G' (____, ____)

H' (____, ____)

I' (____, ____)

For #28-32, draw all lines of symmetry on each figure.

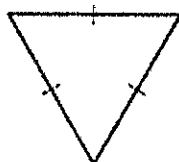
28.



29.



30.



31.

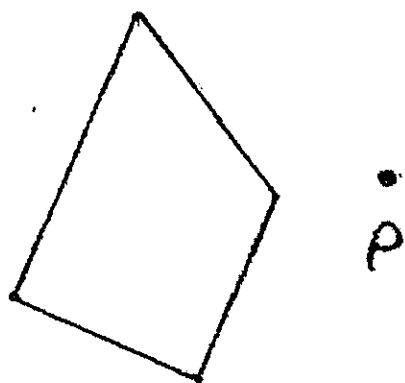


32.



33. For each figure in #28-32, does the figure have rotational symmetry? If so, what is the angle of rotational symmetry? List on back of this page.

34. Dilate the figure centered at P using scale factor of -1



35. Dilate the figure centered at P using scale factor 2

