LESSON 7.1

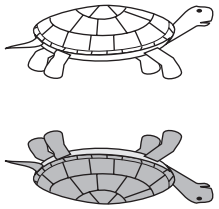
NAME _____ DATE _____

Practice B

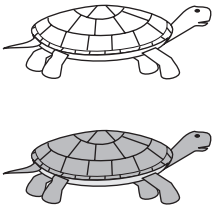
For use with pages 396–402

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

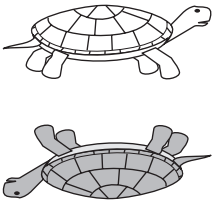
1.



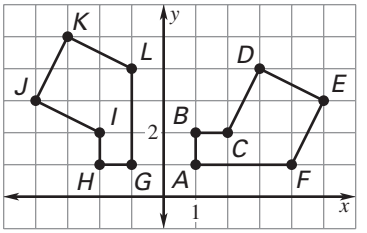
2.



3.



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



4. Figure $ABCDEF \rightarrow$ Figure _____.

5. Name and describe the transformation.

6. Name the image of $\overline{CD}$.

7. Name the preimage of $\overline{HI}$.

8. Name the coordinates of the preimage of point J.

9. Show that $\overline{EF}$ and $\overline{KL}$ have the same length, using the Distance Formula.

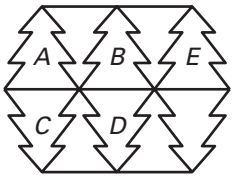
In Exercises 10–13, name the transformation that will map Tree *A* onto the indicated tree.

10. Tree B

11. Tree C

12. Tree D

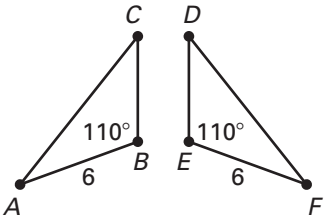
13. Tree E



In Exercises 14–15, complete the statement regarding the transformation shown.

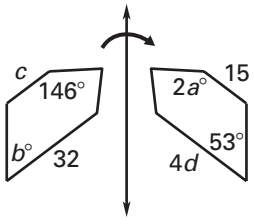
14. $\triangle ABC \rightarrow \triangle$ ___?___

15. $\triangle$ ___?___ $\rightarrow \triangle EDF$



Find the value of each variable, given that the transformation is an isometry.

16.



17.