

**LESSON**  
**9.4**

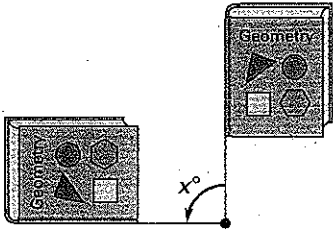
**Practice A**

For use with pages 598–605

LESSON 9.4

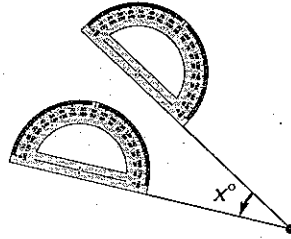
Match the diagram with the angle of rotation.

1.



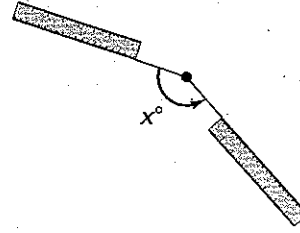
A.  $30^\circ$

2.



B.  $90^\circ$

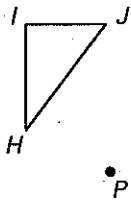
3.



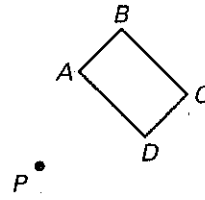
C.  $150^\circ$

Trace the polygon and point  $P$  on paper. Then draw a rotation of the polygon the given number of degrees about  $P$ .

4.  $45^\circ$

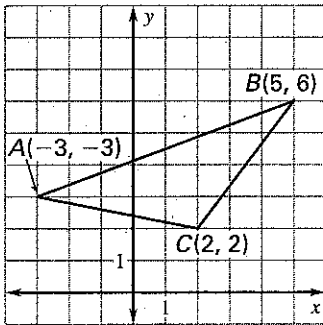


5.  $90^\circ$

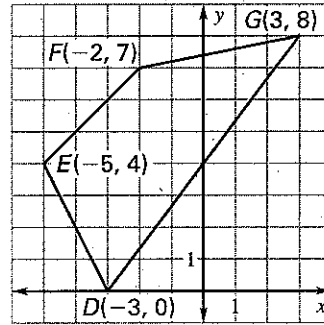


Rotate the figure the given number of degrees about the origin. List the coordinates of the vertices of the image.

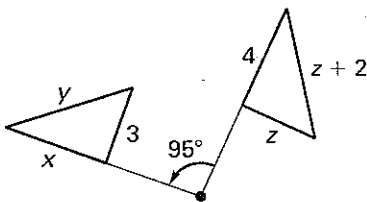
6.  $90^\circ$



7.  $270^\circ$



8. Find the value of  $y$  in the rotation of the triangle about  $P$ .



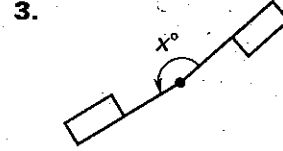
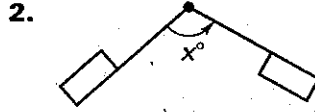
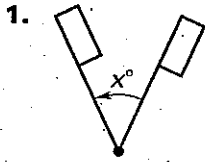
**LESSON**  
**9.4**

**Practice B**

For use with pages 598–605

LESSON 9.4

Match the diagram with the angle of rotation.



A.  $110^\circ$

B.  $170^\circ$

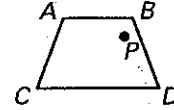
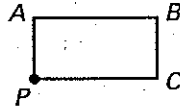
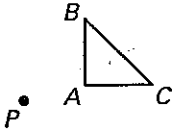
C.  $50^\circ$

Trace the polygon and point  $P$  on paper. Then draw a rotation of the polygon the given number of degrees about  $P$ .

4.  $45^\circ$

5.  $120^\circ$

6.  $135^\circ$

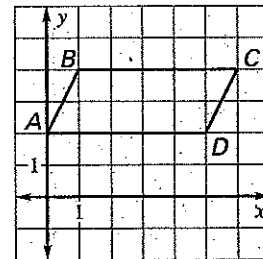
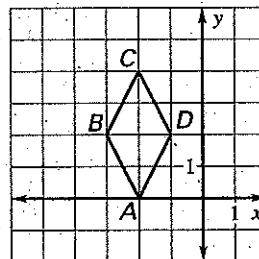
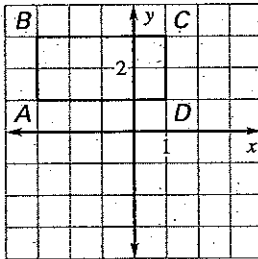


Rotate the figure the given number of degrees about the origin. List the coordinates of the vertices of the image.

7.  $90^\circ$

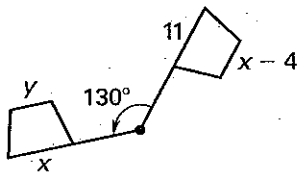
8.  $180^\circ$

9.  $270^\circ$

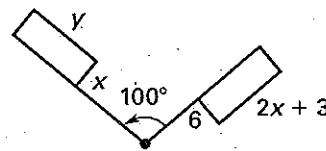


Find the value of each variable in the rotation.

10.



11.



12.

