State the segment or triangle that represents the image. You can use tracing paper to help you visualize the rotation.

1.   90° clockwise rotation of $\overline{AB}$ about P.

2.   90° clockwise rotation of $\overline{KF}$ about P.

3.   90° counterclockwise rotation of $\overline{FL}$ about P.

4.   90° counterclockwise rotation of $\overline{MP}$ about P.

5.   180° rotation of ΔKEF about P.

6.   180° rotation of ΔBCJ about P.

7.   90° clockwise rotation of ΔAPG about P.
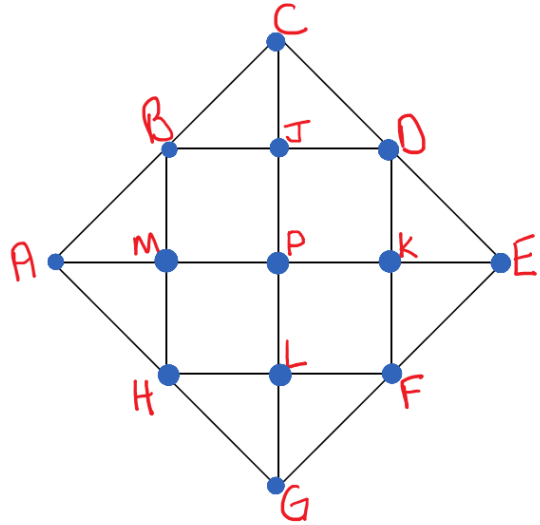
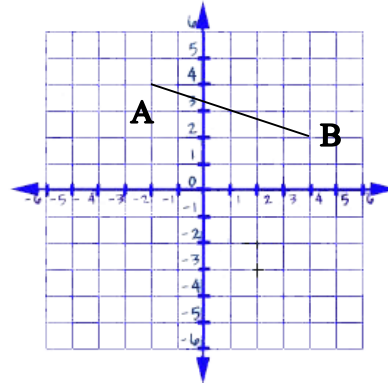**Graph each image and find the coordinates after the given rotation.**

8.   90° clockwise around the origin.
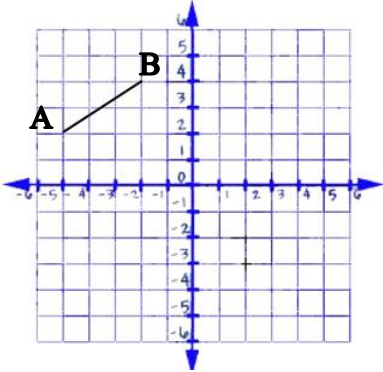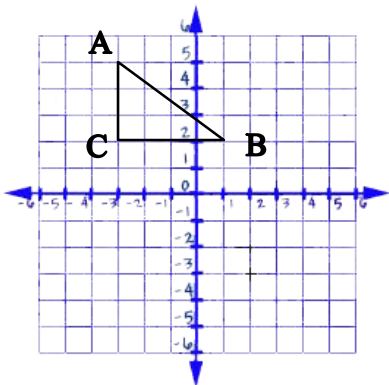

A'(_____)

B'(_____)

9.   180° counterclockwise around the origin.

A'(_____)

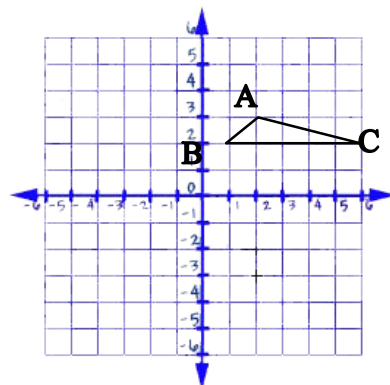B'(_____)

10.   270° counterclockwise around the origin.
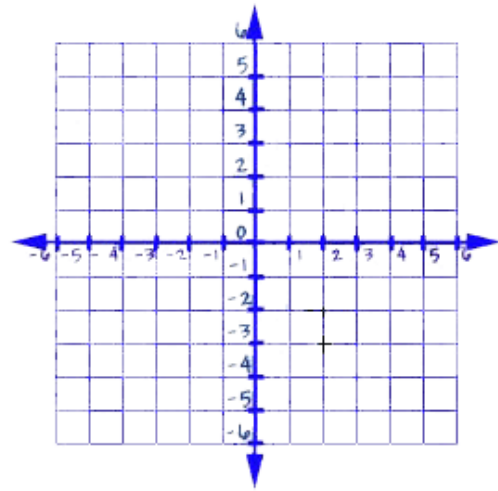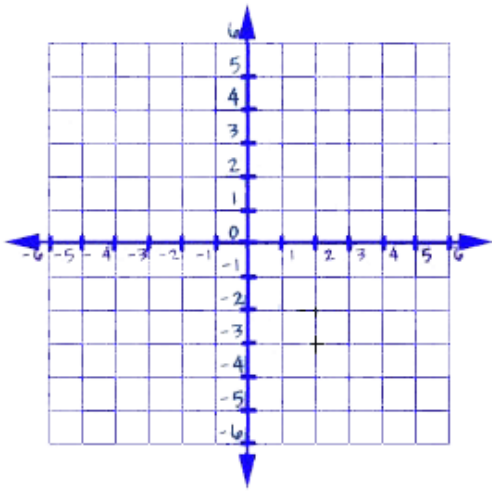

A'(_____)

B'(_____)

C'(_____)

11.   90° counterclockwise around the origin.

A'(_____)

B'(_____)

C'(_____)

Find the coordinates of each image after the given rotation (use the coordinate plane above if needed).

12.   A(-2, 3) rotated 90° clockwise around the origin.

13.   B(4, -6) rotated 90° clockwise around the origin.

14.   C(-6, -5) rotated 180° clockwise around the origin.

15.   D(0, -3) rotated 180° clockwise around the origin.

16.   E(-4, -5) rotated 270° clockwise around the origin.

17.   F(-2, 3) rotated 270° clockwise around the origin.

18.   G(-2, 1) rotate 90° counterclockwise around the origin.

19.   H(0, -3) rotated 90° counterclockwise around the origin.

20.   I(-2, -5) rotated 180° counterclockwise around the origin.

21.   J(3, -4) rotated 180° counterclockwise around the origin.

23.   K(5, -6) rotated 90° counterclockwise around the origin.

24.   L(3, 0) rotated 90° counterclockwise around the origin.