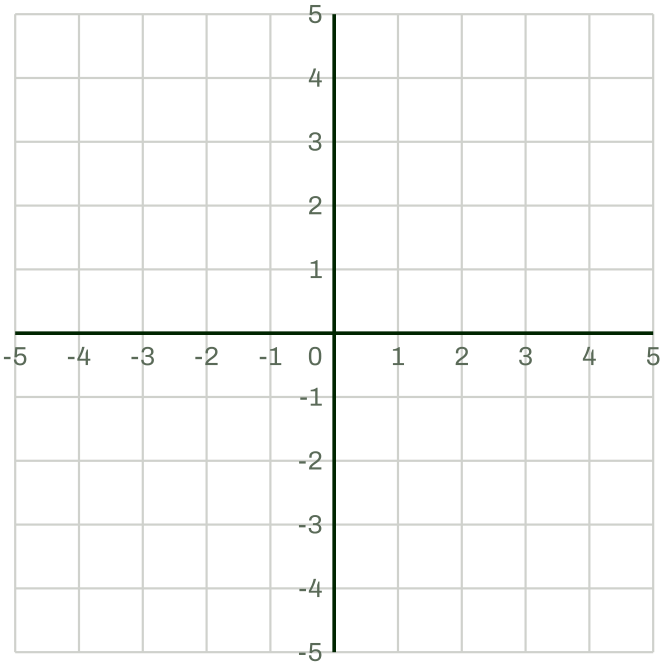


Rotate a figure about the origin

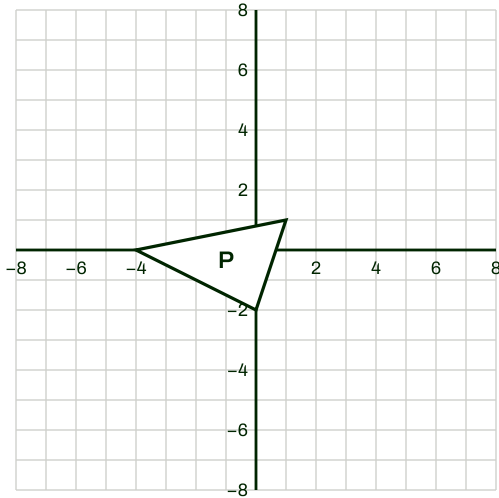
NAME	DATE	SCORE
		/ 10

- 1
- A triangle has vertices $(-3, -2)$, $(2, 4)$ and $(-4, 0)$. Rotate the triangle 90° counterclockwise about the origin. Plot the image of $(2, 4)$.



2

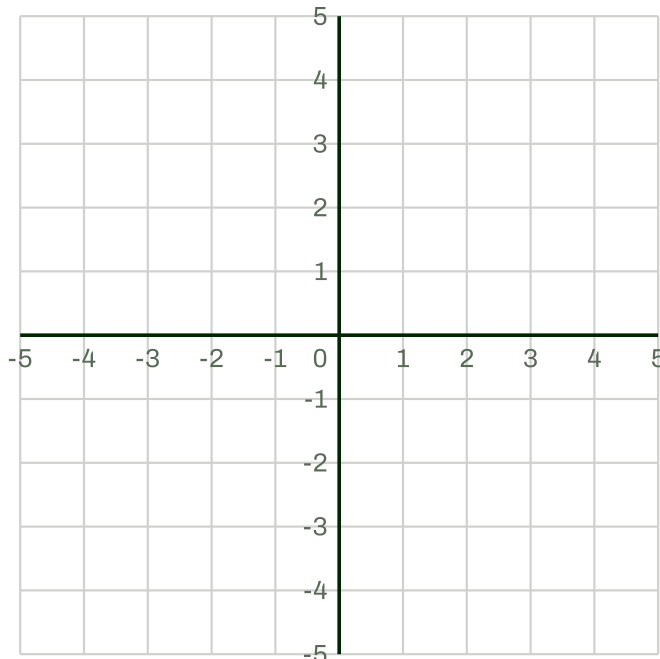
Triangle P, with vertices $(0, -2)$, $(-4, 0)$ and $(1, 1)$, is drawn on the coordinate plane below. Triangle P is rotated 270° clockwise about the origin. What are the vertices of the image?



- ☐ $(0, 2), (4, 0), (-1, -1)$
 ☐ $(2, 0), (0, -4), (-1, 1)$
 ☐ $(-2, 0), (0, -4), (1, 1)$
☐ $(-2, 0), (0, 4), (1, -1)$

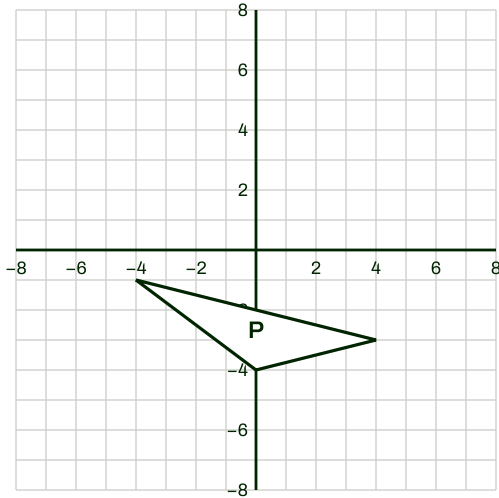
3

A triangle has vertices $(0, 4)$, $(-1, 4)$ and $(-1, 1)$. Rotate the triangle 270° counterclockwise about the origin. Plot the image of $(-1, 4)$.



4

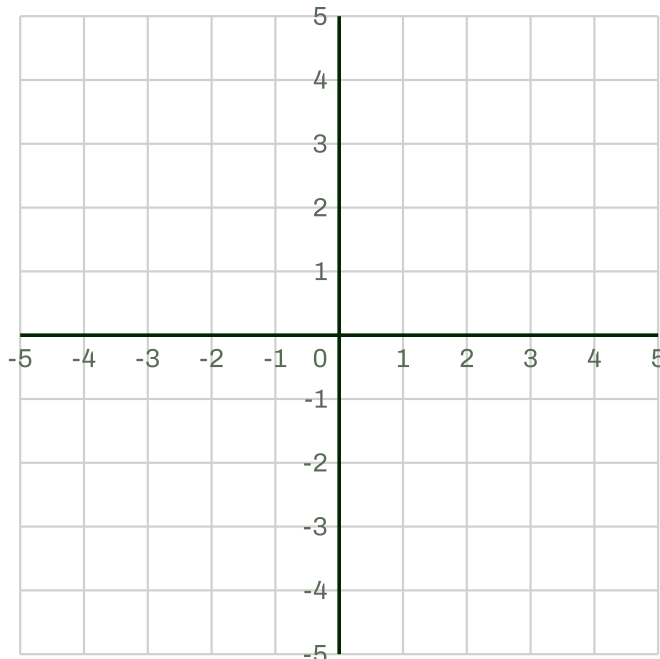
Triangle P, with vertices $(0, -4)$, $(4, -3)$ and $(-4, -1)$, is drawn on the coordinate plane below. Triangle P is rotated 270° counterclockwise about the origin. What are the vertices of the image?



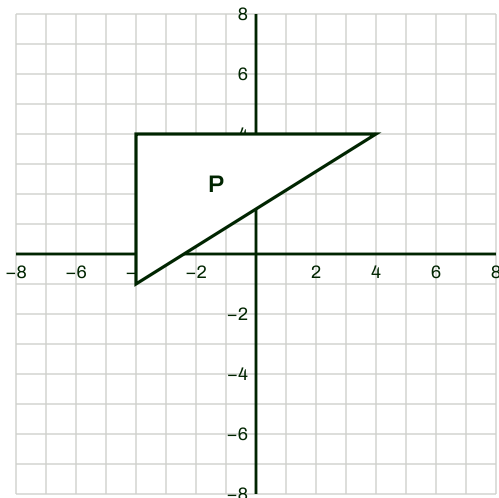
- ☐ $(-4, 0), (-3, 4), (-1, -4)$
 ☐ $(0, 4), (-4, 3), (4, 1)$
 ☐ $(4, 0), (3, 4), (1, -4)$
☐ $(-4, 0), (-3, -4), (-1, 4)$

5

A triangle has vertices $(3, 4)$, $(-1, -1)$ and $(3, -2)$. Rotate the triangle 180° about the origin. Plot the image of $(3, 4)$.

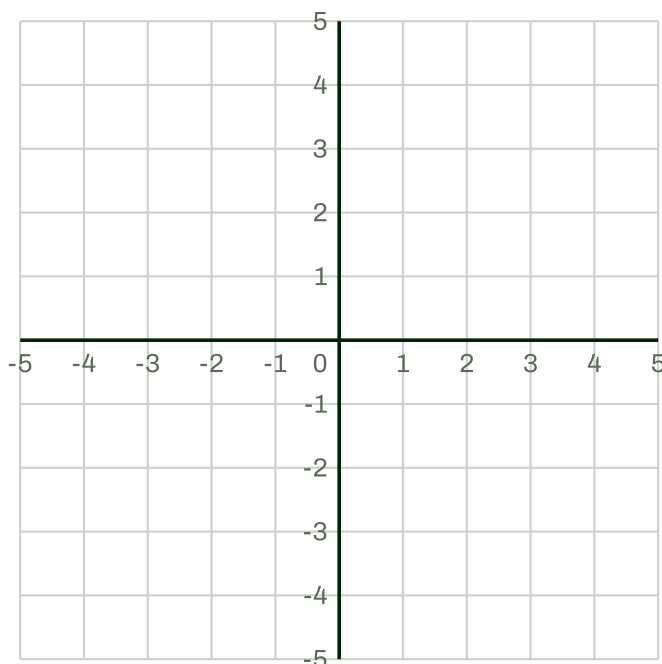


- 6** Triangle P, with vertices $(-4, -1)$, $(-4, 4)$ and $(4, 4)$, is drawn on the coordinate plane below. Triangle P is rotated 270° counterclockwise about the origin. What are the vertices of the image?



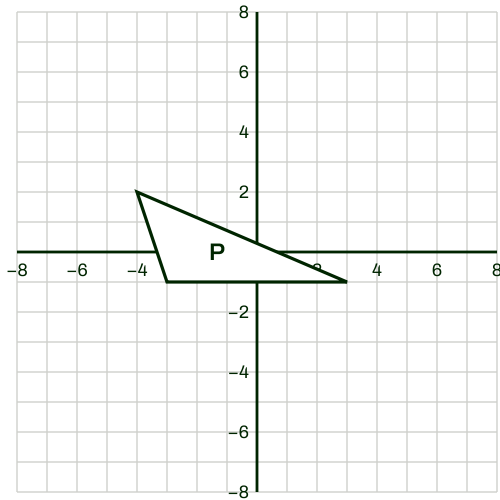
- ☐ $(-1, -4), (4, -4), (4, 4)$
 ☐ $(-1, 4), (4, 4), (4, -4)$
 ☐ $(1, -4), (-4, -4), (-4, 4)$
☐ $(4, 1), (4, -4), (-4, -4)$

- 7** A triangle has vertices $(-4, -3)$, $(-4, 3)$ and $(3, 2)$. Rotate the triangle 180° about the origin. Plot the image of $(-4, 3)$.



8

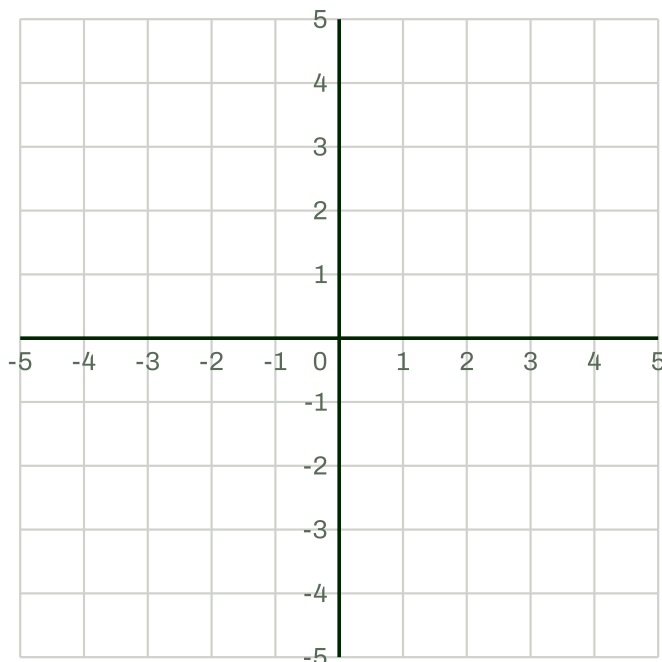
Triangle P, with vertices $(-4, 2)$, $(3, -1)$ and $(-3, -1)$, is drawn on the coordinate plane below. Triangle P is rotated 90° counterclockwise about the origin. What are the vertices of the image?



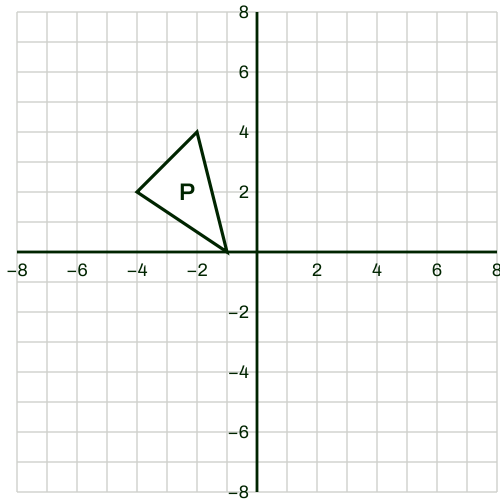
- ☐ $(2, -4), (-1, 3), (-1, -3)$
 ☐ $(4, -2), (-3, 1), (3, 1)$
 ☐ $(2, 4), (-1, -3), (-1, 3)$
☐ $(-2, -4), (1, 3), (1, -3)$

9

A triangle has vertices $(2, 4)$, $(-2, -3)$ and $(4, 2)$. Rotate the triangle 270° counterclockwise about the origin. Plot the image of $(-2, -3)$.



- 10** Triangle P, with vertices $(-2, 4)$, $(-1, 0)$ and $(-4, 2)$, is drawn on the coordinate plane below. Triangle P is rotated 90° counterclockwise about the origin. What are the vertices of the image?



- ☐ $(4, 2), (0, 1), (2, 4)$
 ☐ $(4, -2), (0, -1), (2, -4)$
 ☐ $(2, -4), (1, 0), (4, -2)$
☐ $(-4, -2), (0, -1), (-2, -4)$

Rotate a figure about the origin

1 $-4, 2$

3 $4, 1$

5 $-3, -4$

7 $4, -3$

9 $-3, 2$

2 $(2, 0), (0, -4), (-1, 1)$

4 $(-4, 0), (-3, -4), (-1, 4)$

6 $(-1, 4), (4, 4), (4, -4)$

8 $(-2, -4), (1, 3), (1, -3)$

10 $(-4, -2), (0, -1), (-2, -4)$