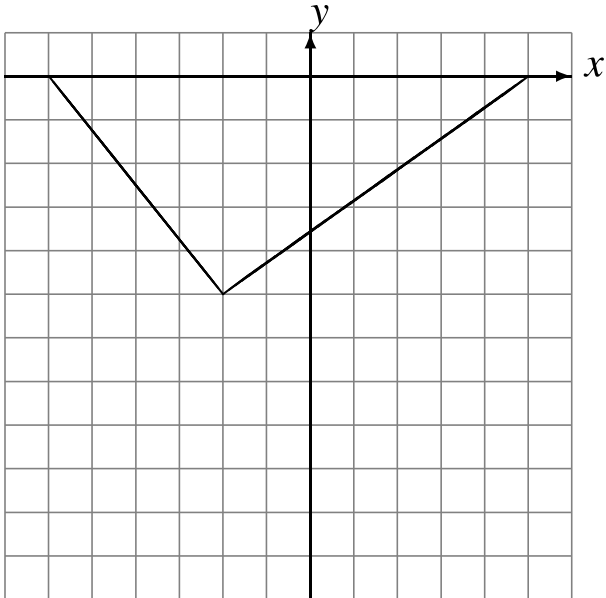


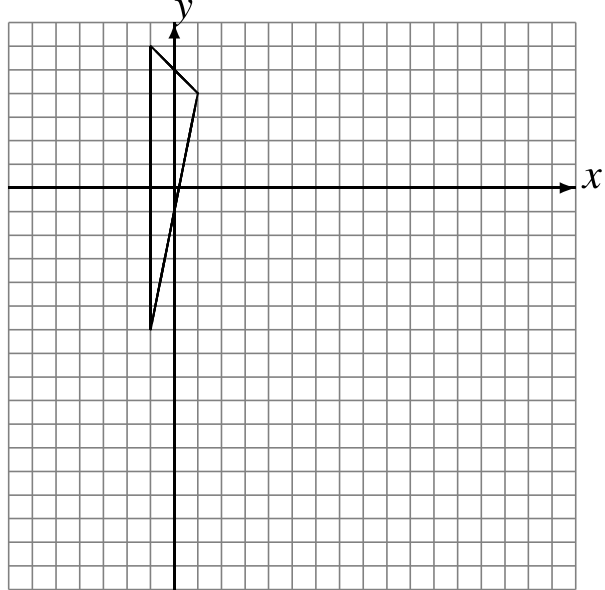
## Rotations (A)

Draw the rotated image.

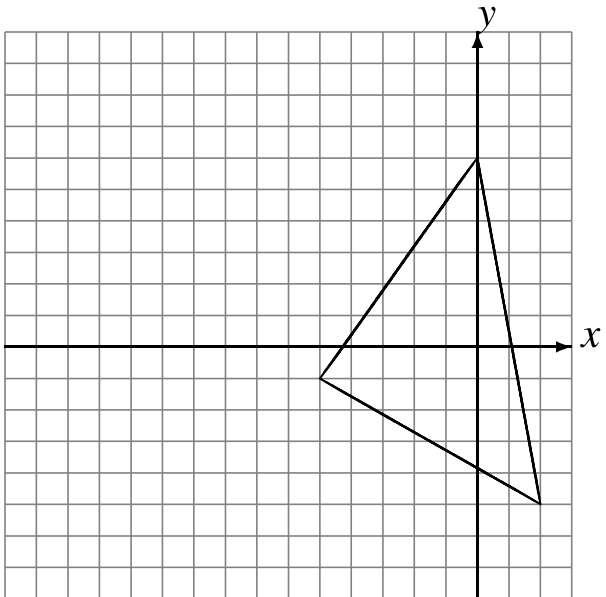
Rotate  $90^\circ$  clockwise about  $(-1, -5)$ .



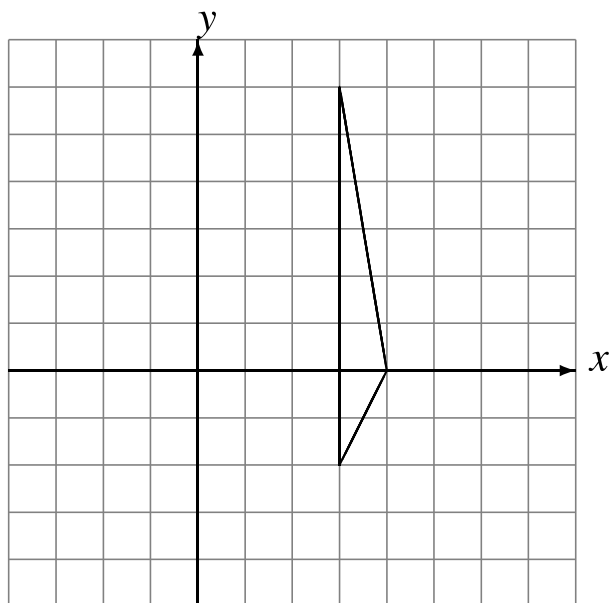
Rotate  $180^\circ$  about  $(5, -5)$ .



Rotate  $90^\circ$  counterclockwise about  $(-5, -3)$ .



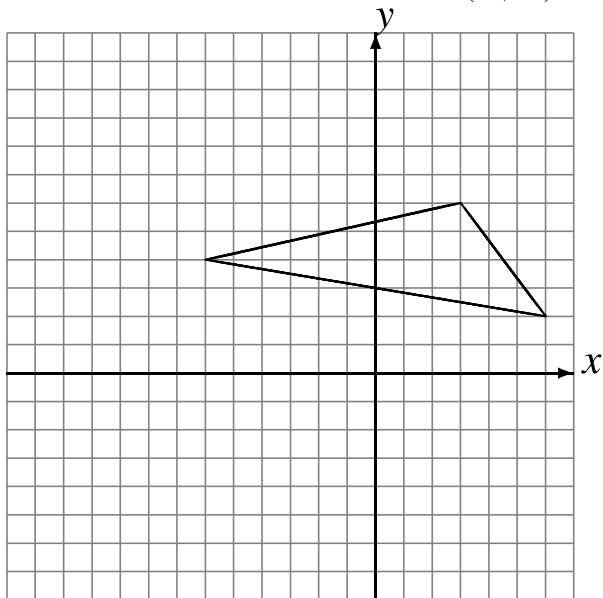
Rotate  $180^\circ$  about  $(2, 1)$ .



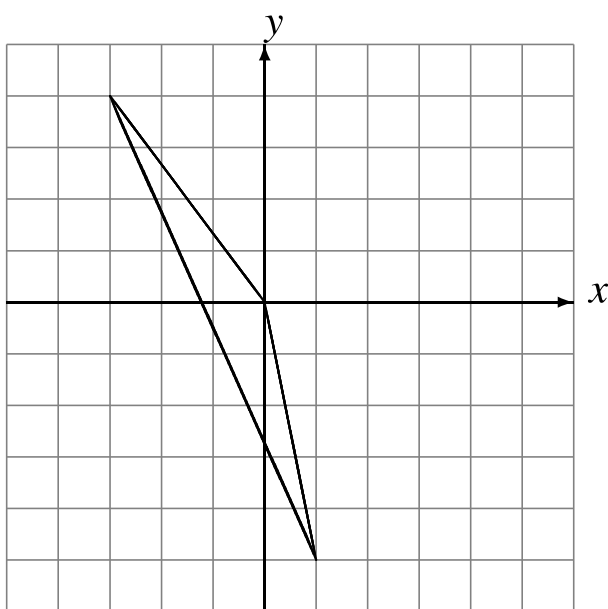
## Rotations (B)

Draw the rotated image.

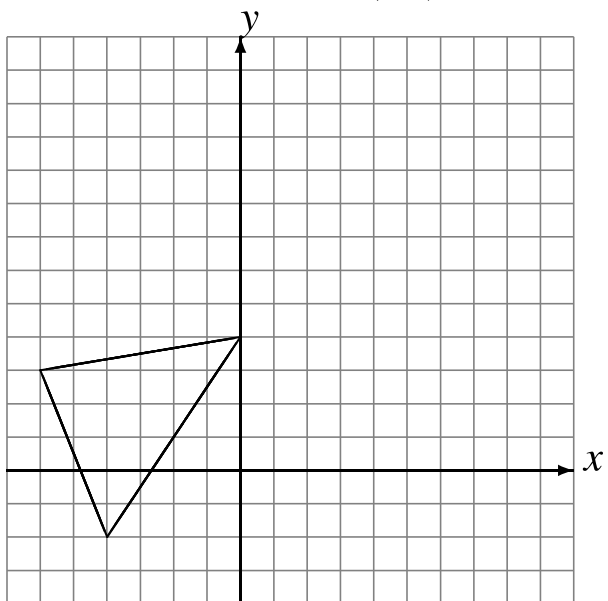
Rotate  $90^\circ$  counterclockwise about  $(-4, -2)$ .



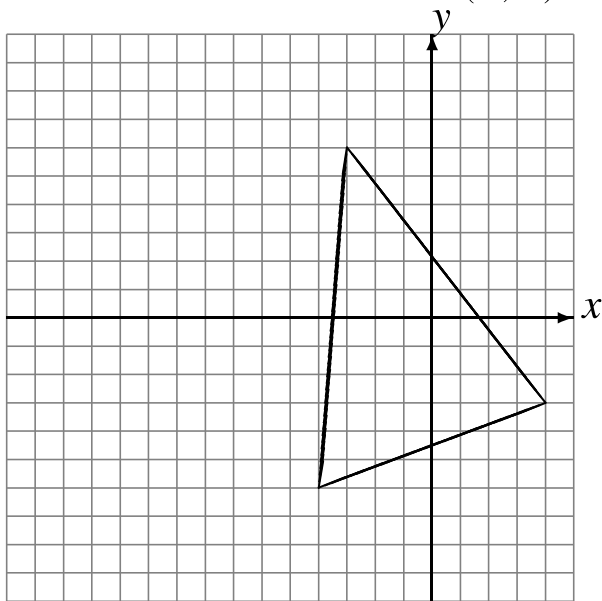
Rotate  $90^\circ$  counterclockwise about  $(-1, 1)$ .



Rotate  $90^\circ$  clockwise about  $(5, 0)$ .



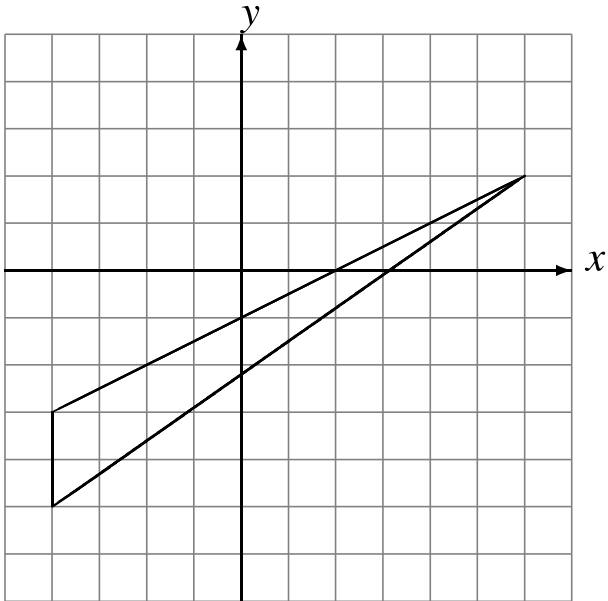
Rotate  $90^\circ$  counterclockwise about  $(-5, -3)$ .



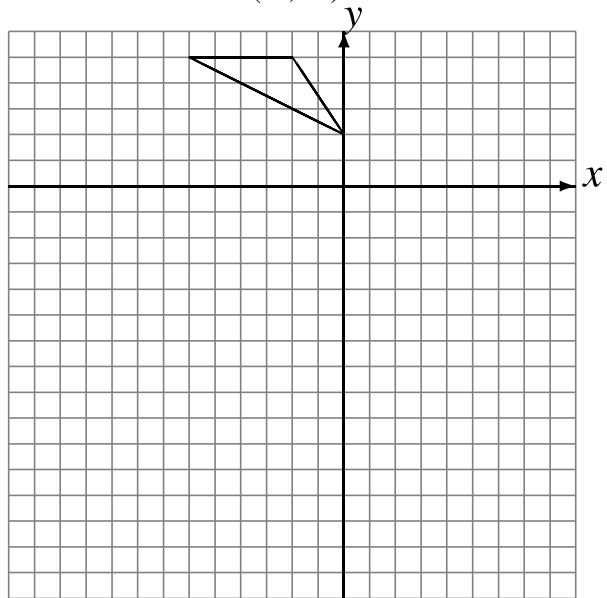
## Rotations (C)

Draw the rotated image.

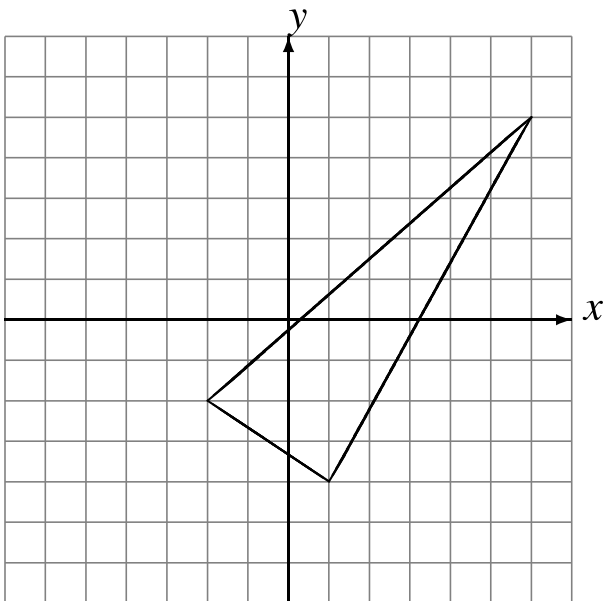
Rotate  $180^\circ$  about  $(1, -1)$ .



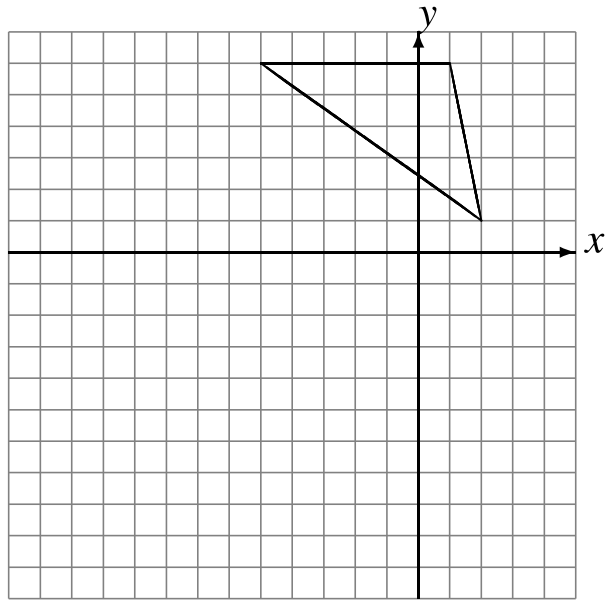
Rotate  $180^\circ$  about  $(-2, -5)$ .



Rotate  $90^\circ$  counterclockwise about  $(1, -2)$ .



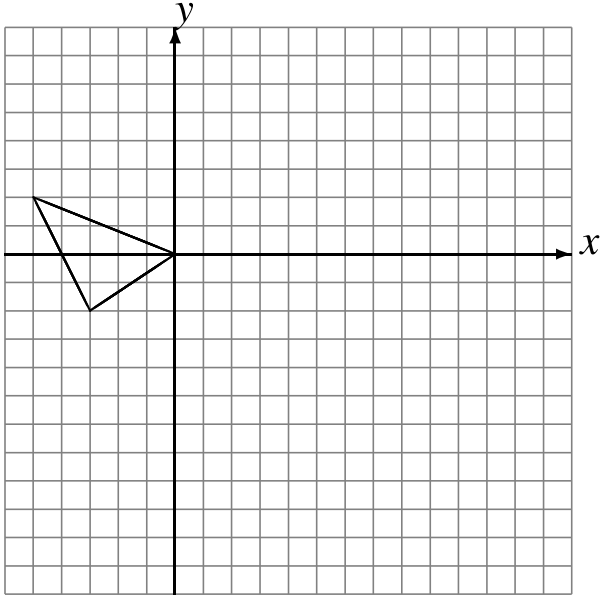
Rotate  $180^\circ$  about  $(-4, -2)$ .



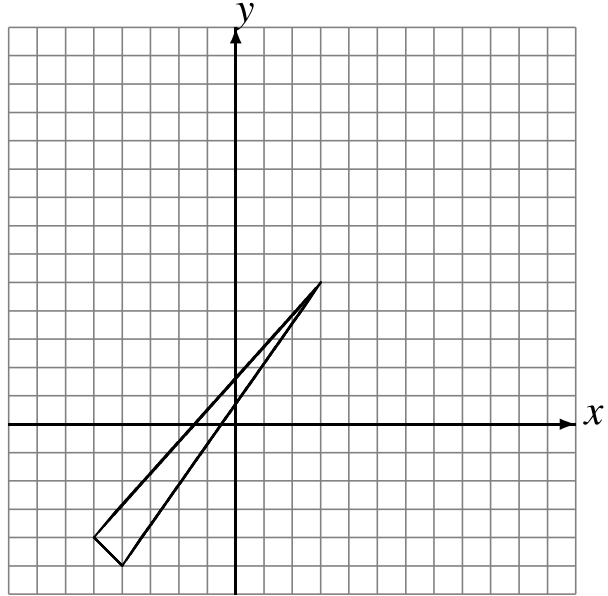
## Rotations (D)

Draw the rotated image.

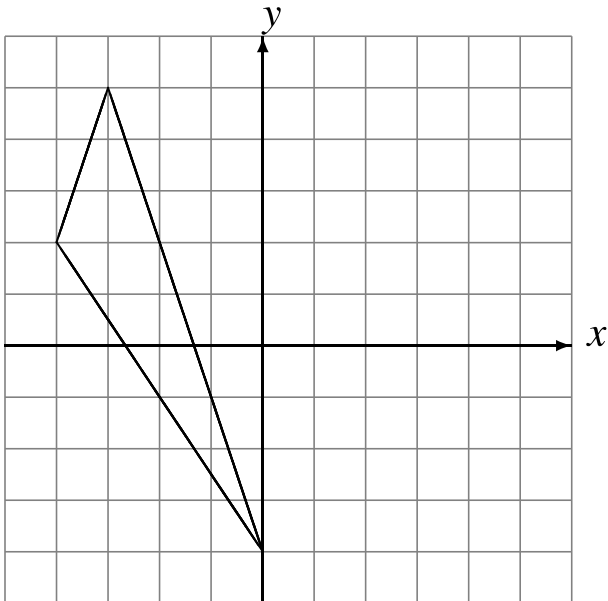
Rotate  $180^\circ$  about  $(4, -2)$ .



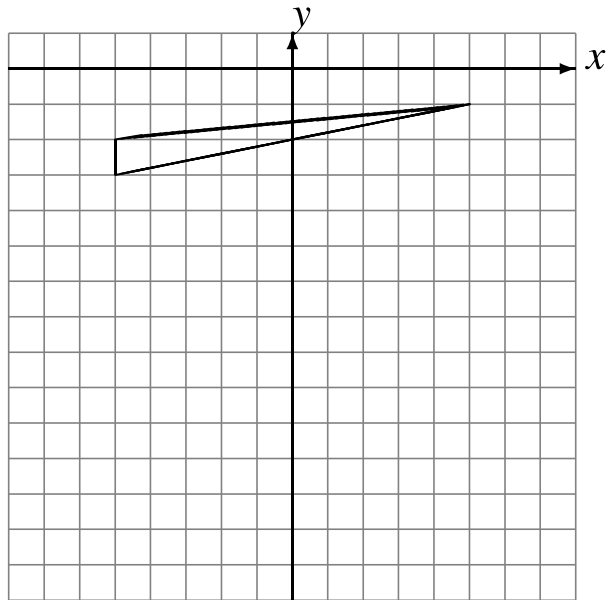
Rotate  $180^\circ$  about  $(2, 4)$ .



Rotate  $90^\circ$  clockwise about  $(-2, -2)$ .



Rotate  $90^\circ$  clockwise about  $(-5, -4)$ .

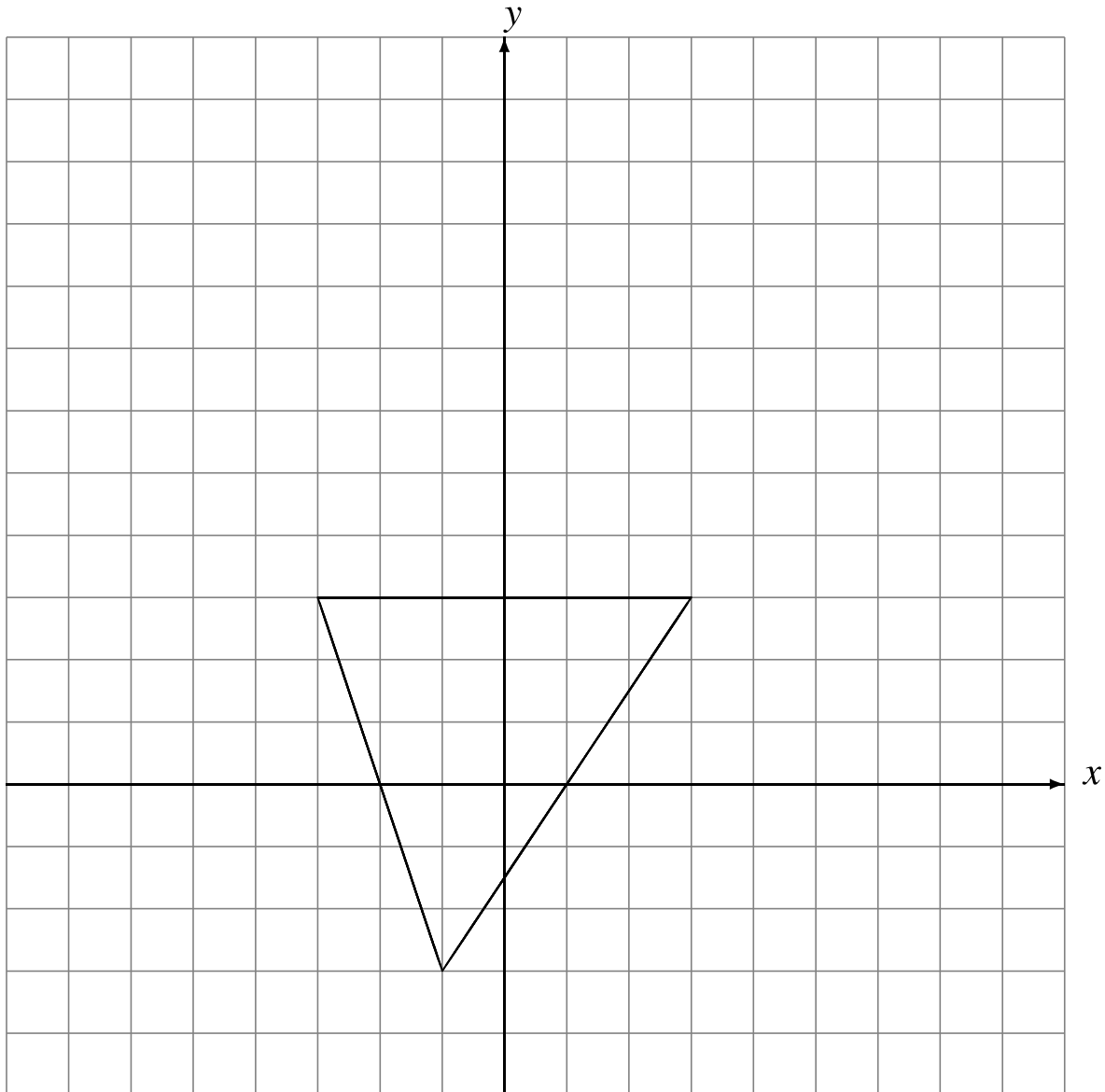


## Rotations (A)

Draw the intermediate and rotated images.

Rotate  $90^\circ$  clockwise about  $(4, 4)$ .

Rotate  $90^\circ$  clockwise about  $(-4, 3)$ .

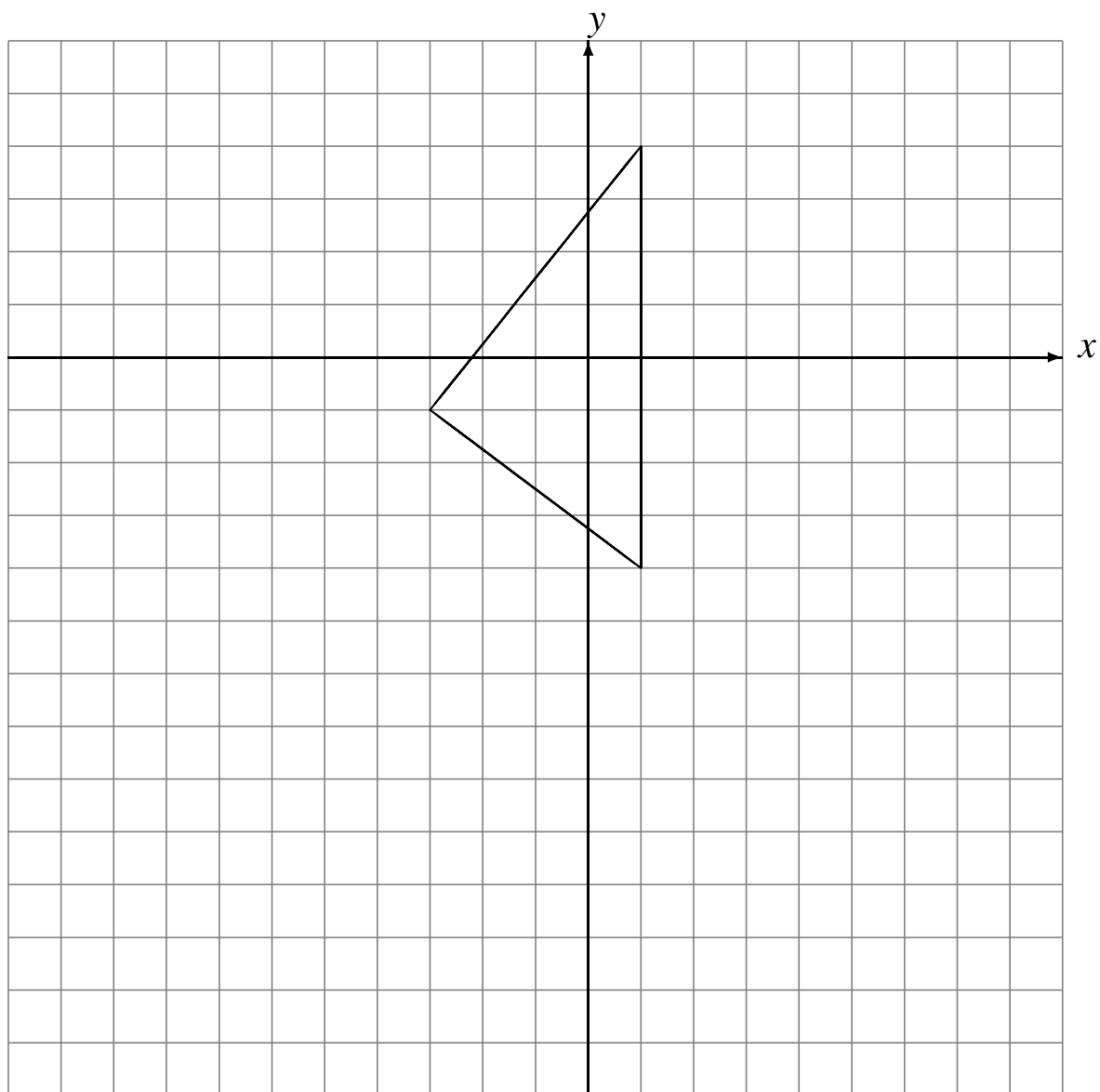


## Rotations (B)

Draw the intermediate and rotated images.

Rotate  $90^\circ$  counterclockwise about  $(-1, 3)$ .

Rotate  $180^\circ$  about  $(-1, -4)$ .

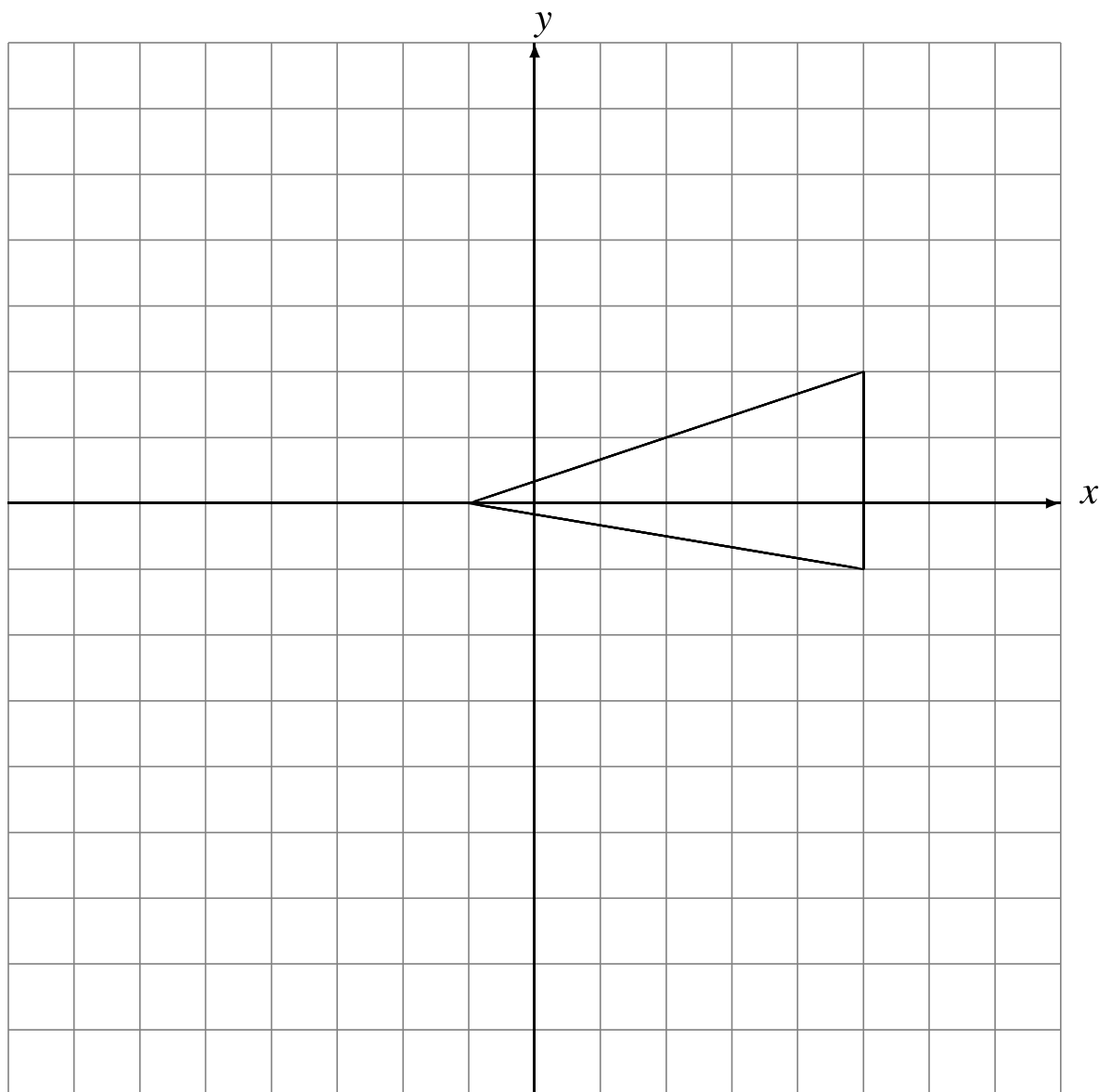


## Rotations (C)

Draw the intermediate and rotated images.

Rotate  $90^\circ$  counterclockwise about  $(-1, -4)$ .

Rotate  $90^\circ$  clockwise about  $(0, -5)$ .



## Rotations (D)

Draw the intermediate and rotated images.

Rotate  $90^\circ$  clockwise about  $(-1, 2)$ .

Rotate  $180^\circ$  about  $(-2, 0)$ .

