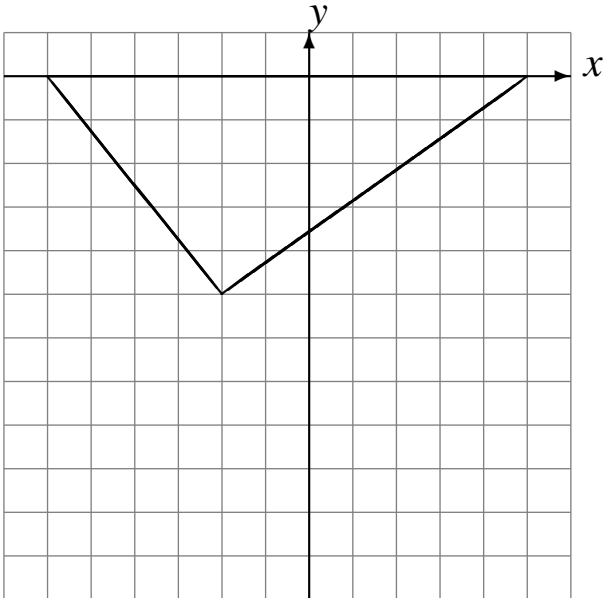


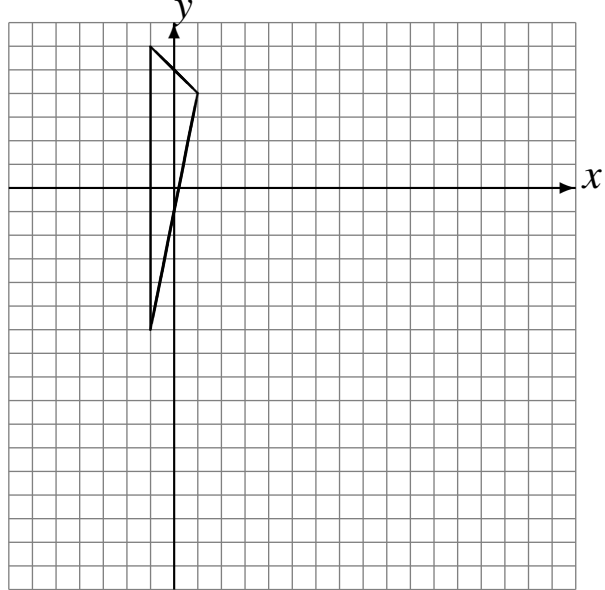
# Rotations (A)

Draw the rotated image.

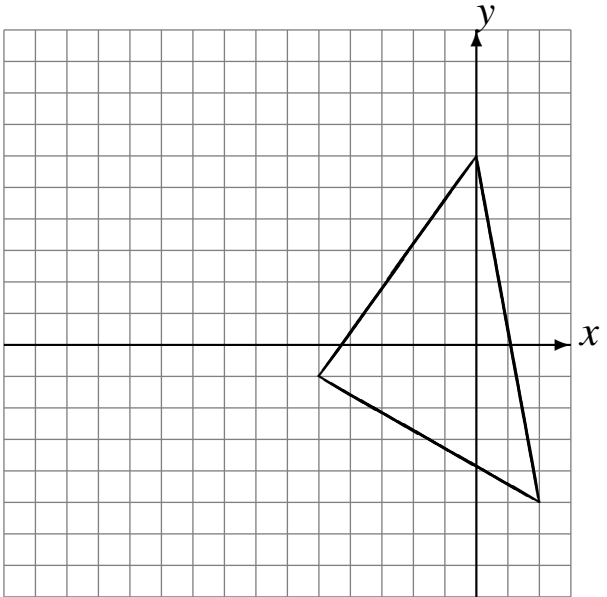
Rotate  $90^\circ$  clockwise about  $(-1, -5)$ .



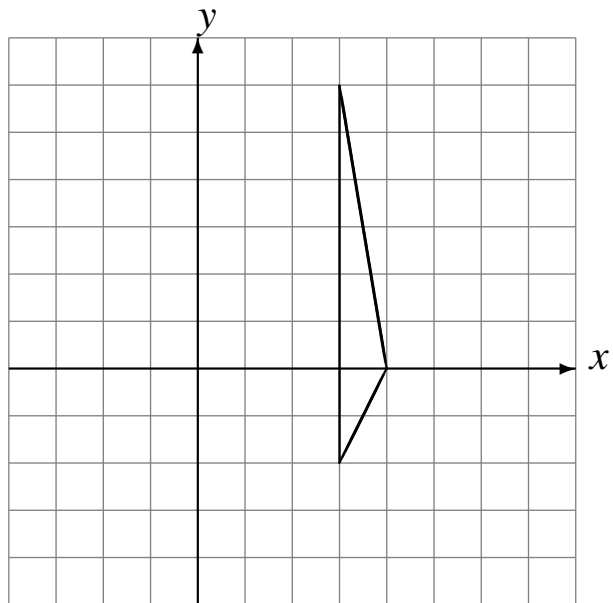
Rotate  $180^\circ$  about  $(5, -5)$ .



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



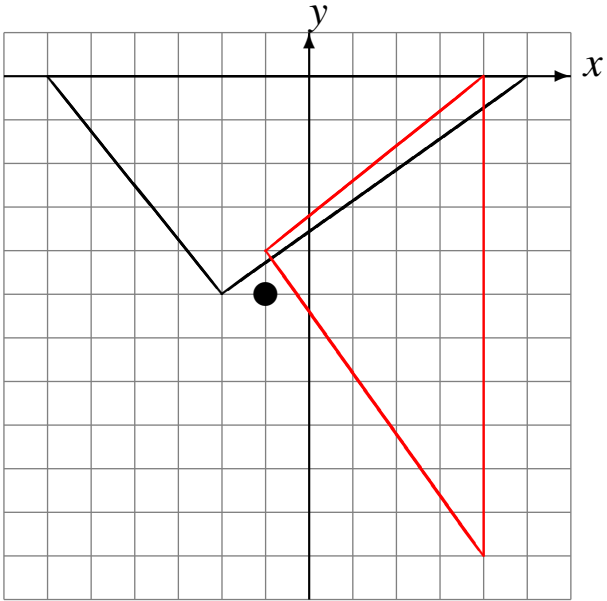
Rotate  $180^\circ$  about  $(2, 1)$ .



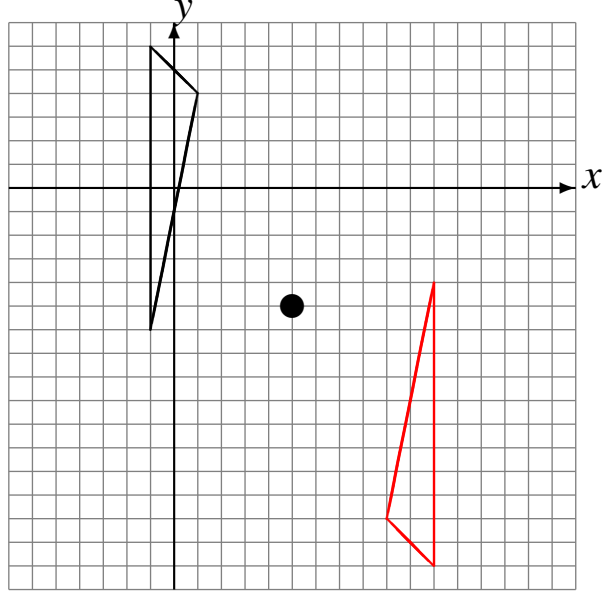
# Rotations (A) Answers

Draw the rotated image.

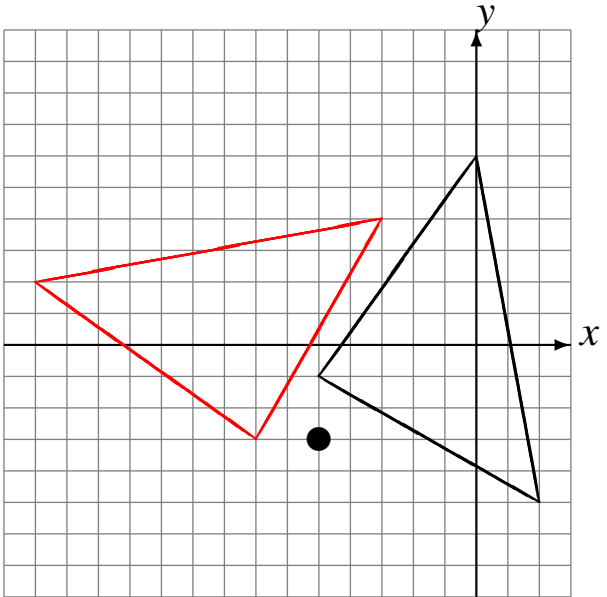
Rotate  $90^\circ$  clockwise about  $(-1, -5)$ .



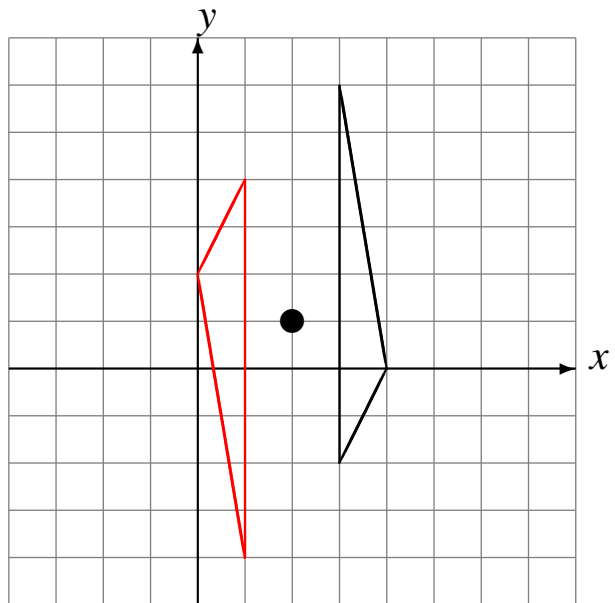
Rotate  $180^\circ$  about  $(5, -5)$ .



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



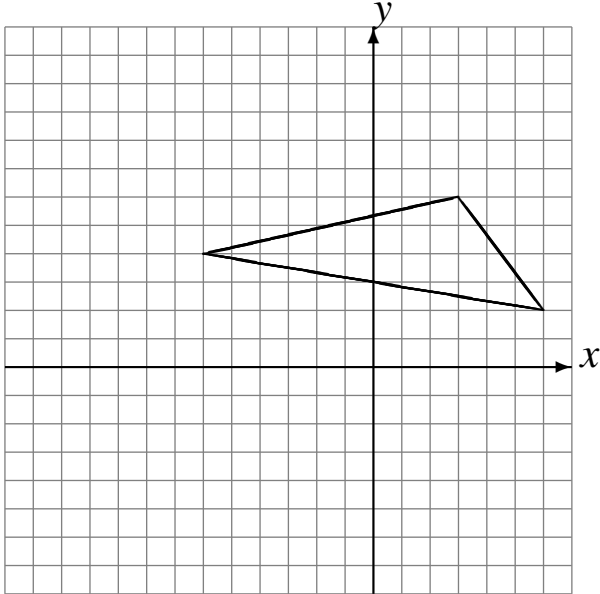
Rotate  $180^\circ$  about  $(2, 1)$ .



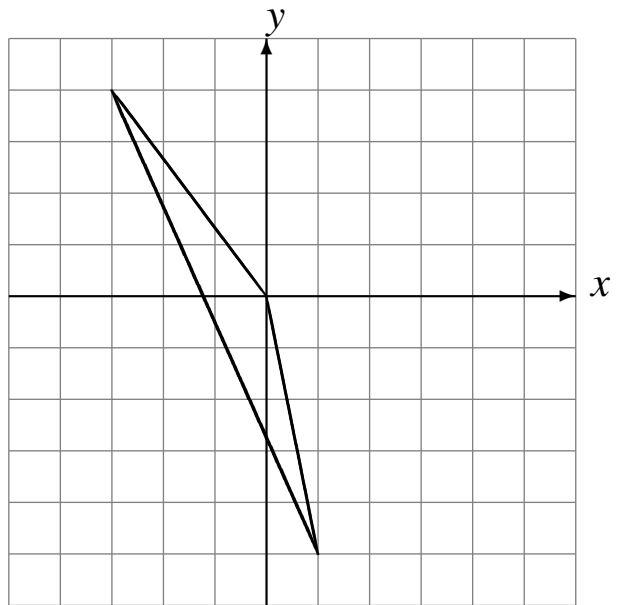
# Rotations (B)

Draw the rotated image.

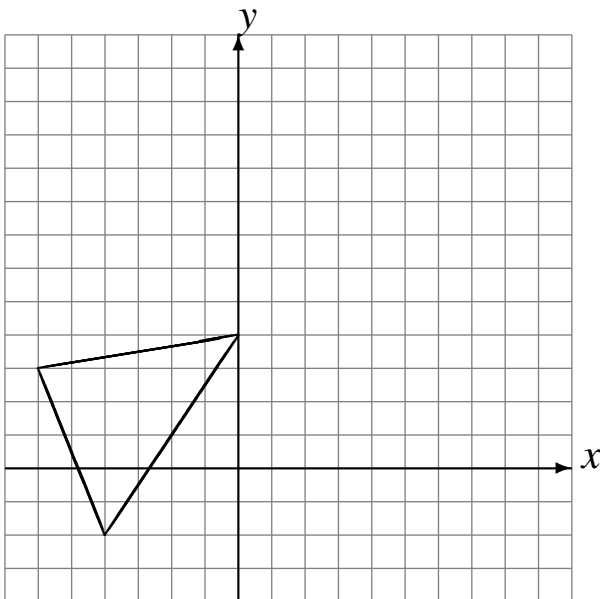
Rotate  $90^\circ$  counterclockwise about  $(-4, -2)$ .



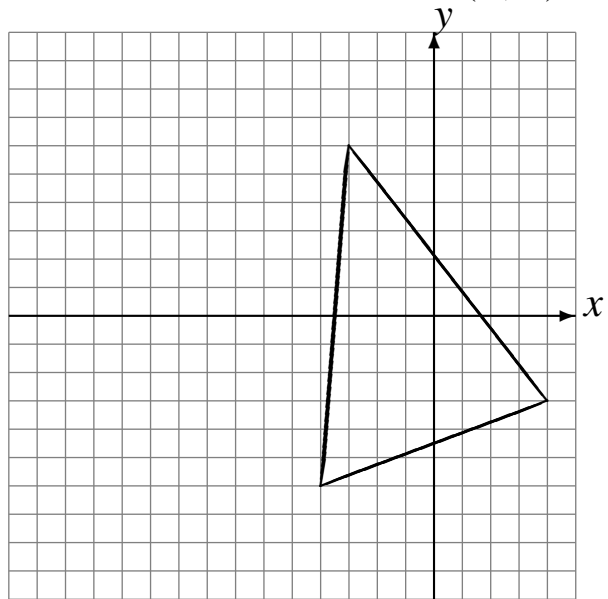
Rotate  $90^\circ$  counterclockwise about  $(-1, 1)$ .



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



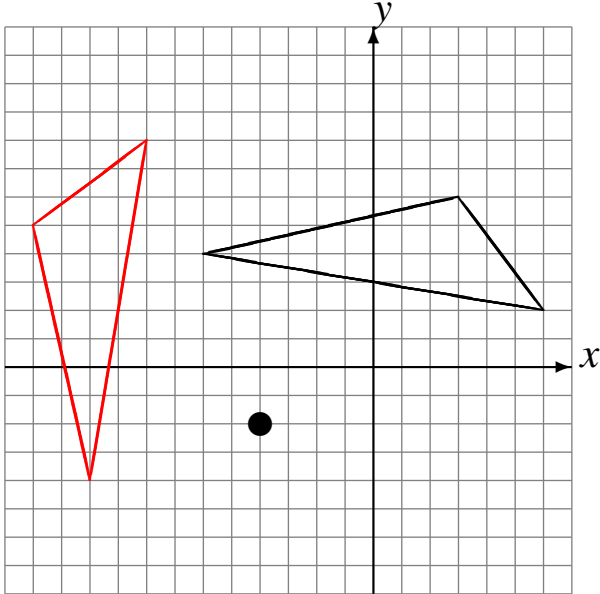
Rotate  $90^\circ$  counterclockwise about  $(-5, -3)$ .



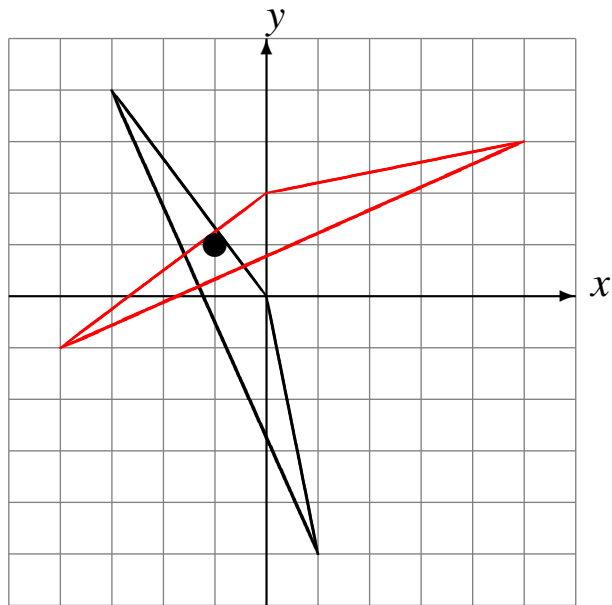
# Rotations (B) Answers

Draw the rotated image.

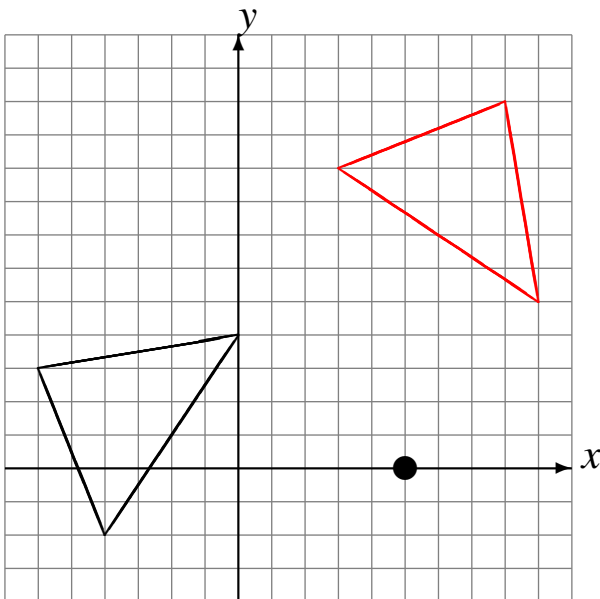
Rotate  $90^\circ$  counterclockwise about  $(-4, -2)$ .



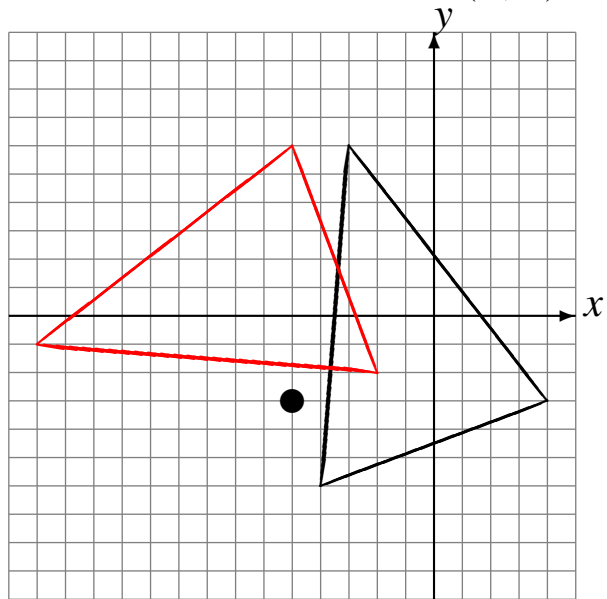
Rotate  $90^\circ$  counterclockwise about  $(-1, 1)$ .



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



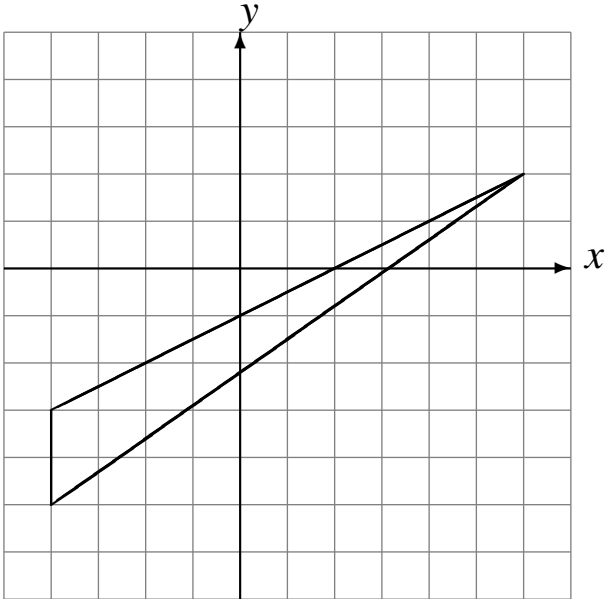
Rotate  $90^\circ$  counterclockwise about  $(-5, -3)$ .



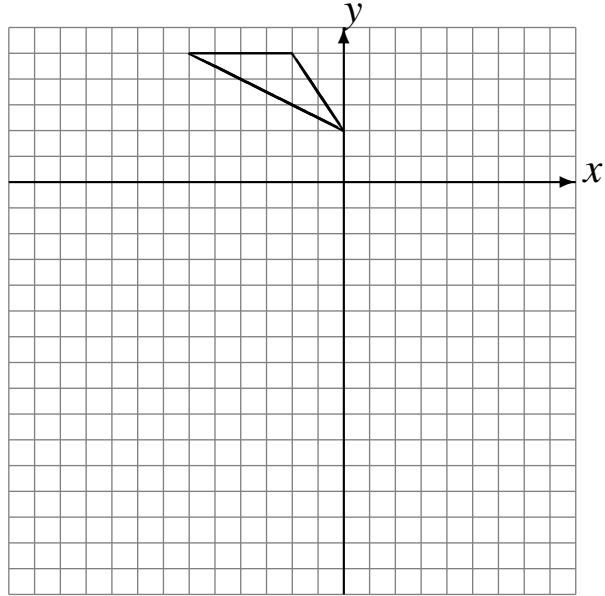
# Rotations (C)

Draw the rotated image.

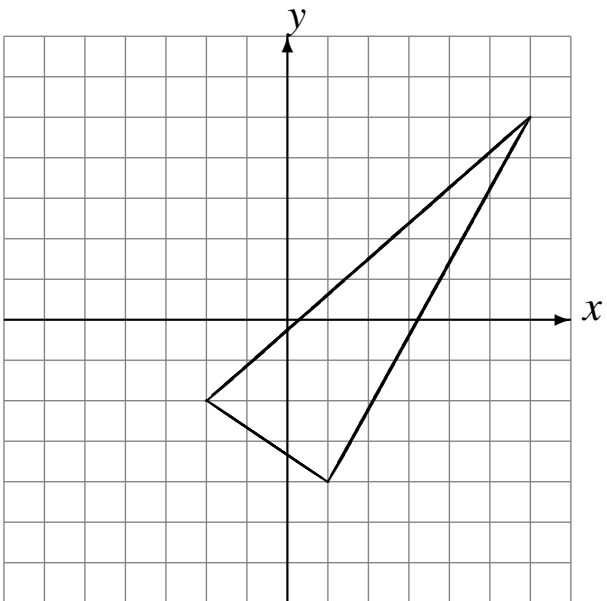
Rotate  $180^\circ$  about  $(1, -1)$ .



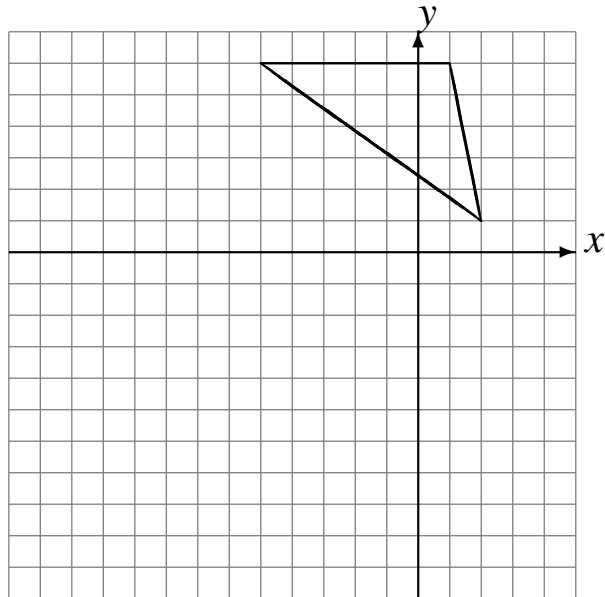
Rotate  $180^\circ$  about  $(-2, -5)$ .



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



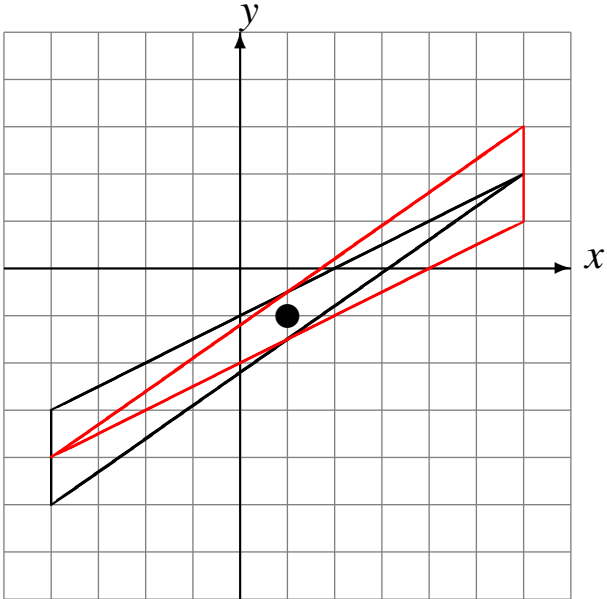
Rotate  $180^\circ$  about  $(-4, -2)$ .



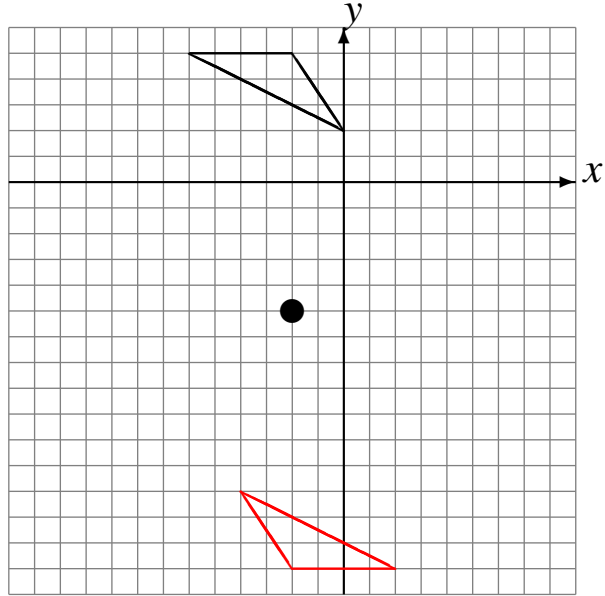
# Rotations (C) Answers

Draw the rotated image.

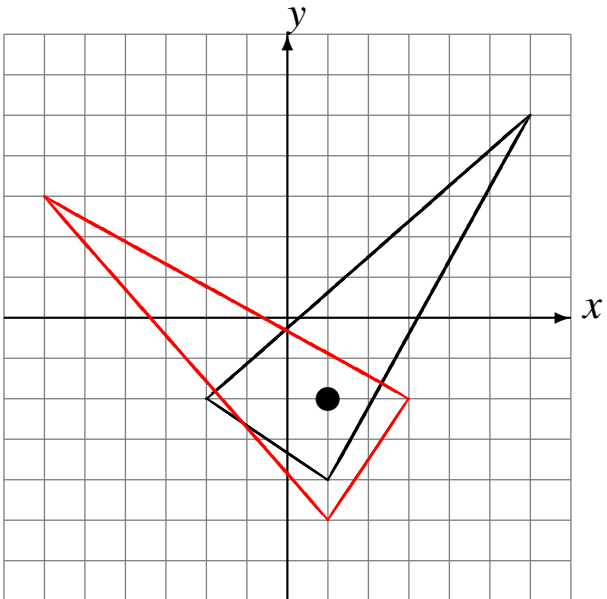
Rotate  $180^\circ$  about  $(1, -1)$ .



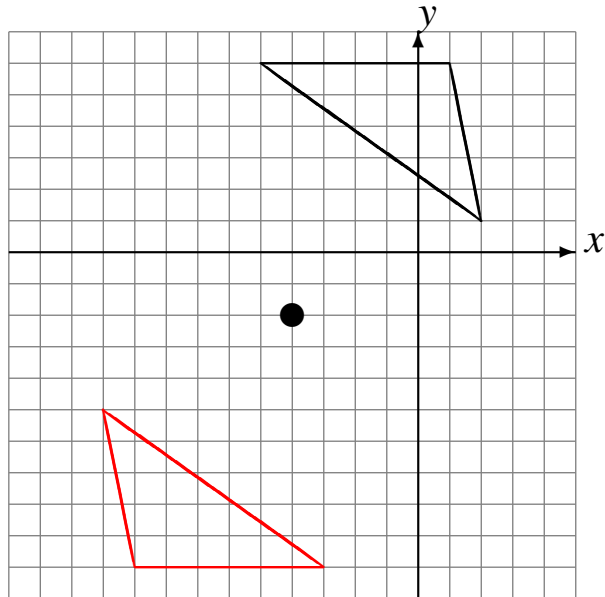
Rotate  $180^\circ$  about  $(-2, -5)$ .



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



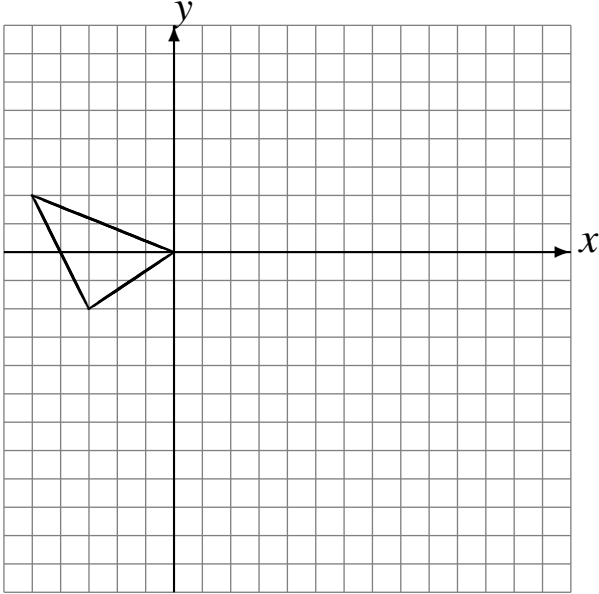
Rotate  $180^\circ$  about  $(-4, -2)$ .



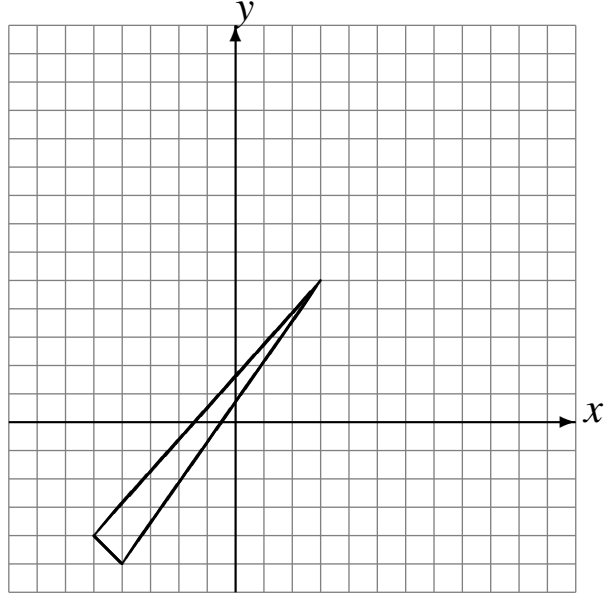
# Rotations (D)

Draw the rotated image.

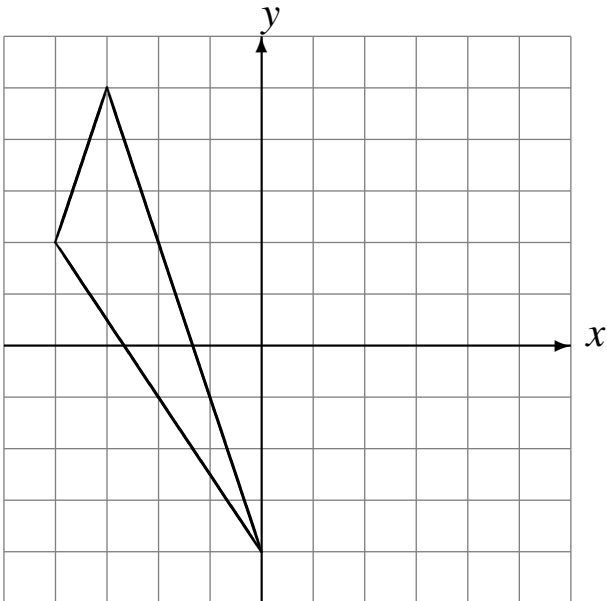
Rotate  $180^\circ$  about  $(4, -2)$ .



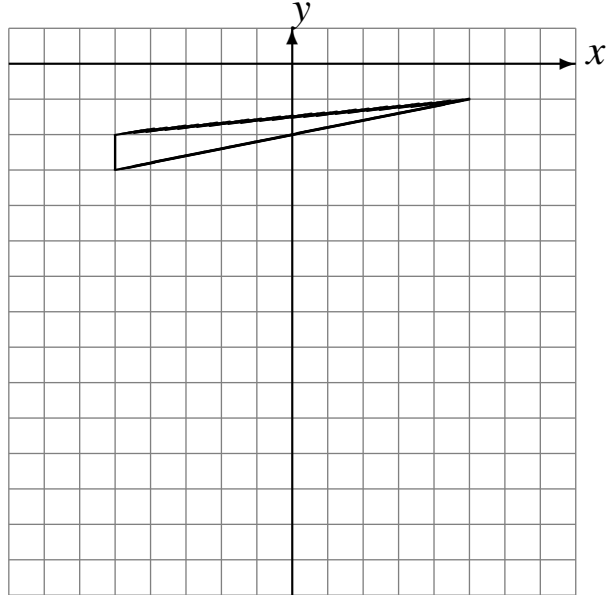
Rotate  $180^\circ$  about  $(2, 4)$ .



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



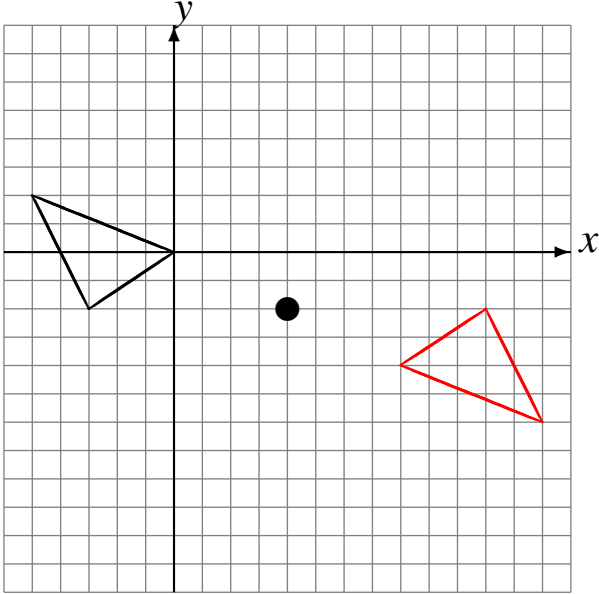
Rotate  $90^\circ$  clockwise about  $(-5, -4)$ .



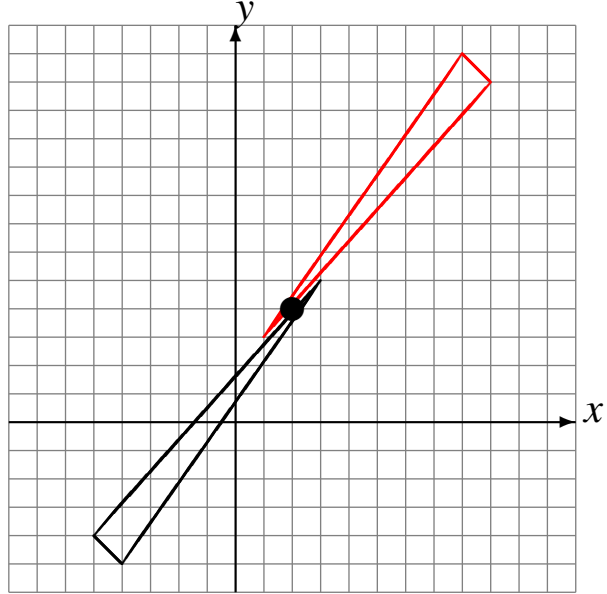
# Rotations (D) Answers

Draw the rotated image.

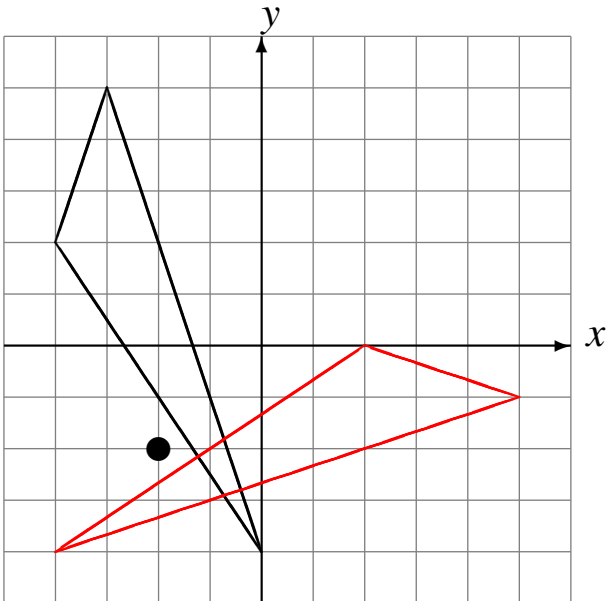
Rotate  $180^\circ$  about  $(4, -2)$ .



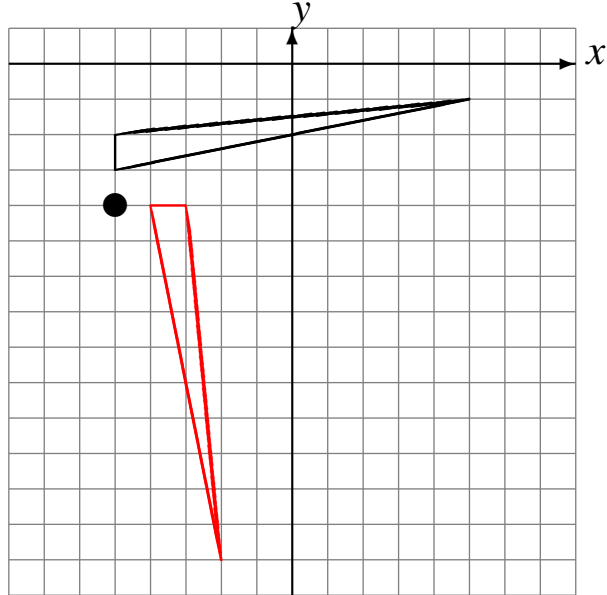
Rotate  $180^\circ$  about  $(2, 4)$ .



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



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

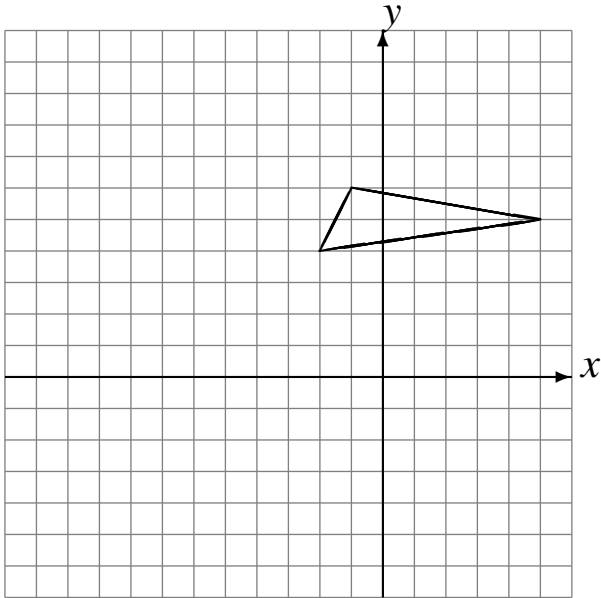




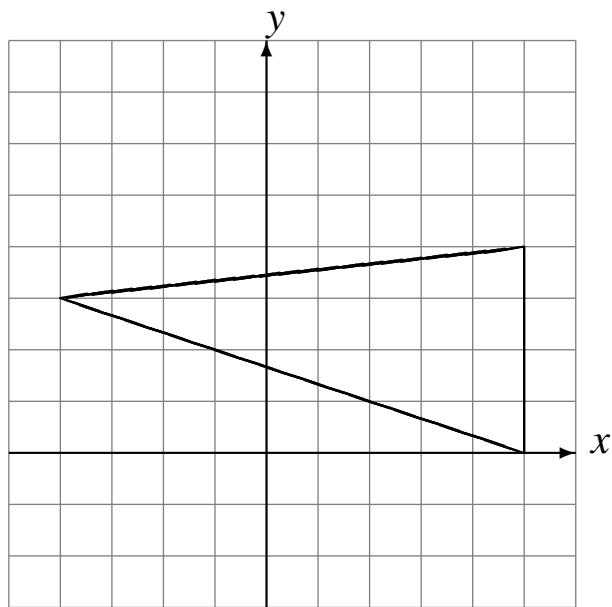
# Rotations (E)

Draw the rotated image.

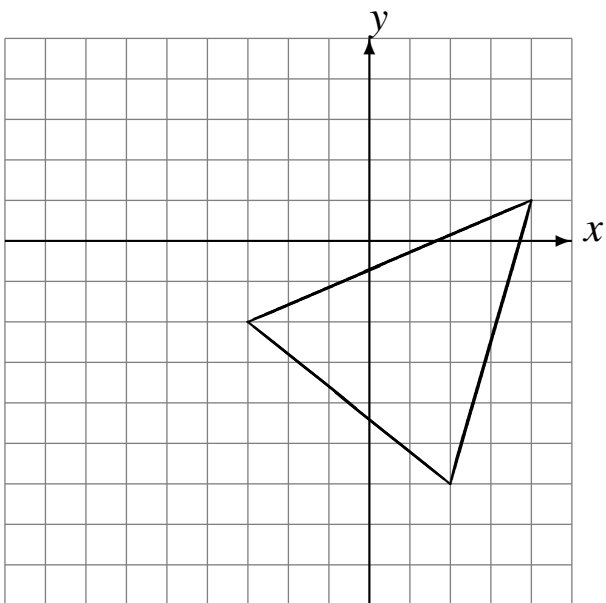
Rotate  $180^\circ$  about  $(-3, 2)$ .



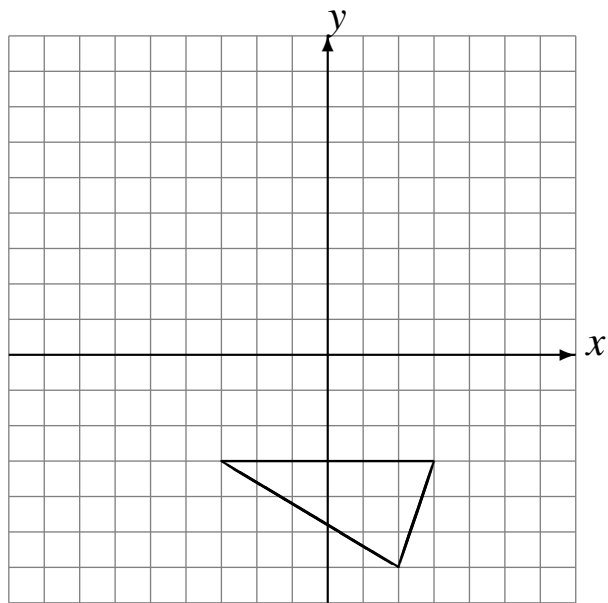
Rotate  $90^\circ$  clockwise about  $(2, 1)$ .



Rotate  $90^\circ$  counterclockwise about  $(-2, -5)$ .



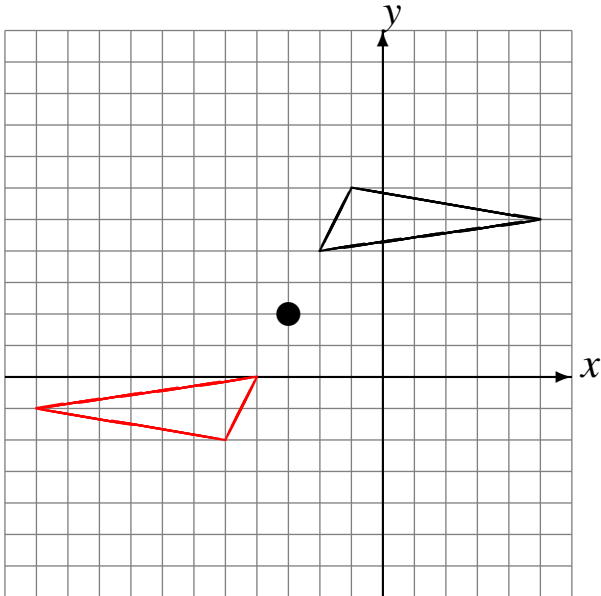
Rotate  $90^\circ$  clockwise about  $(3, 2)$ .



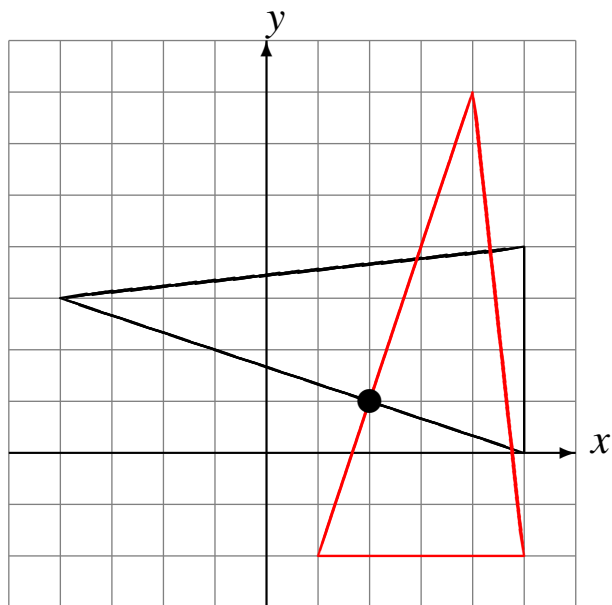
# Rotations (E) Answers

Draw the rotated image.

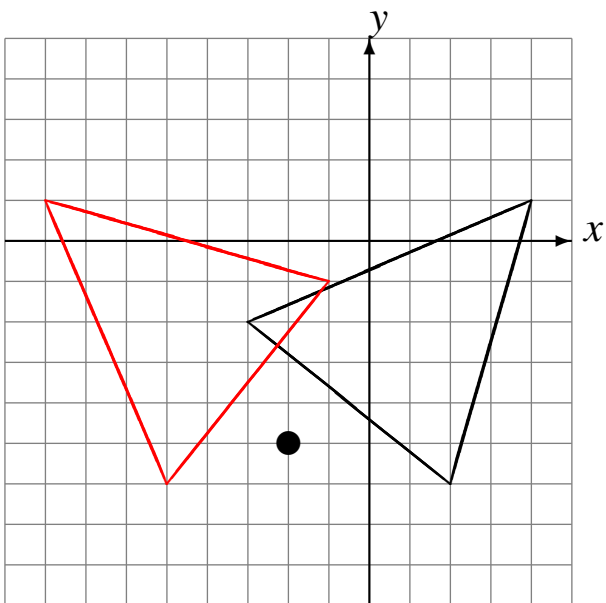
Rotate  $180^\circ$  about  $(-3, 2)$ .



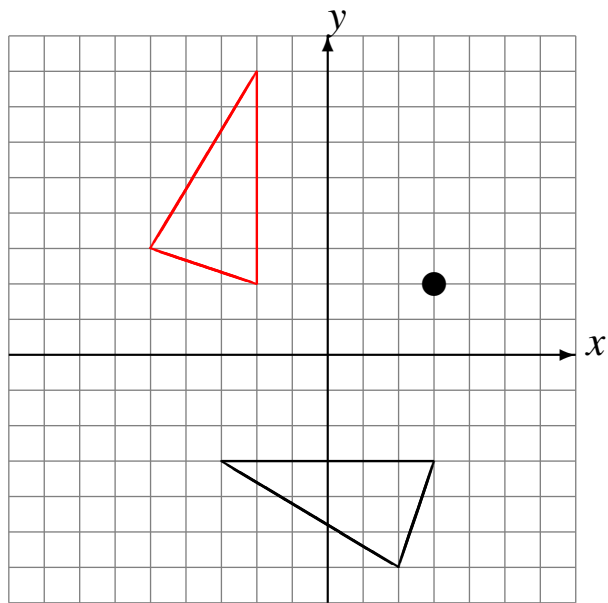
Rotate  $90^\circ$  clockwise about  $(2, 1)$ .



Rotate  $90^\circ$  counterclockwise about  $(-2, -5)$ .



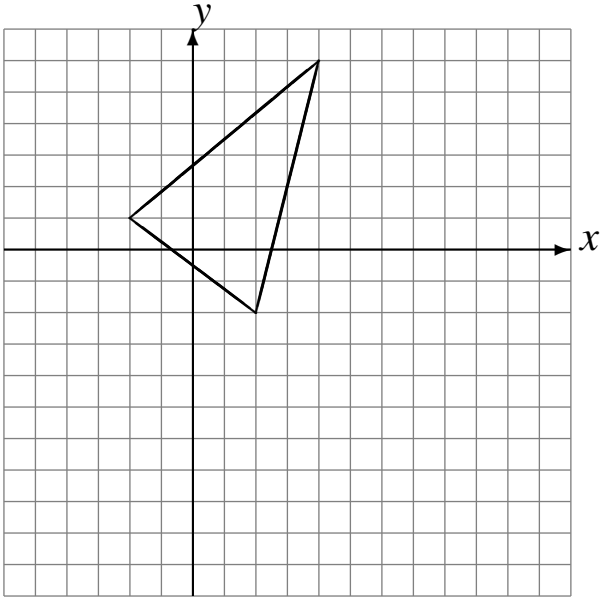
Rotate  $90^\circ$  clockwise about  $(3, 2)$ .



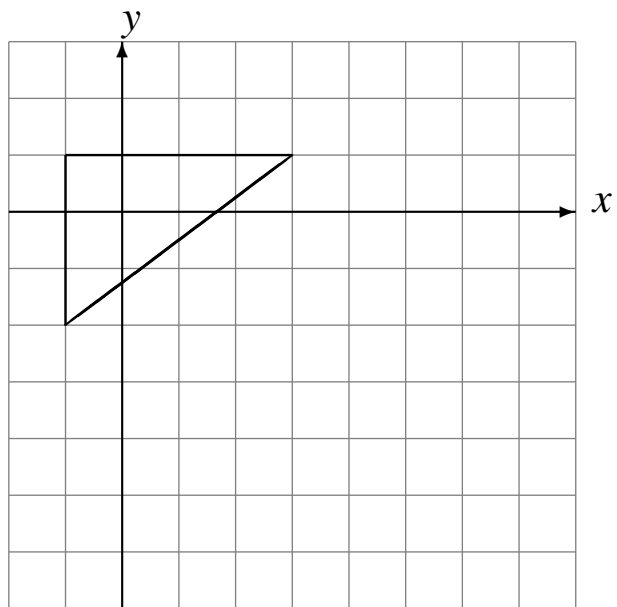
# Rotations (F)

Draw the rotated image.

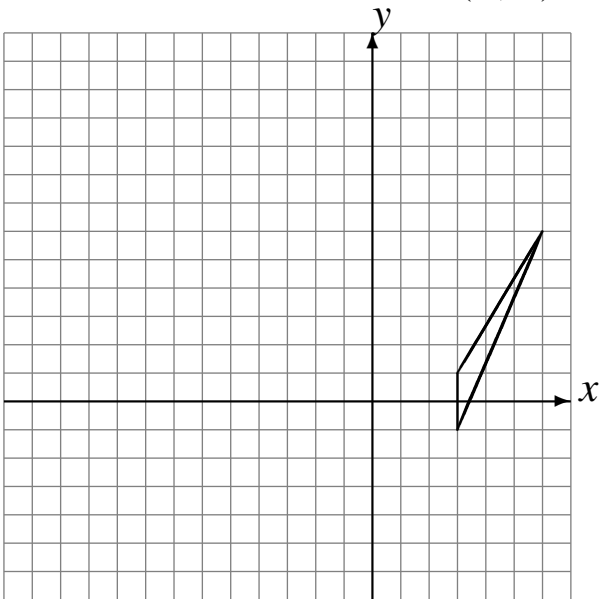
Rotate  $90^\circ$  clockwise about  $(-2, -4)$ .



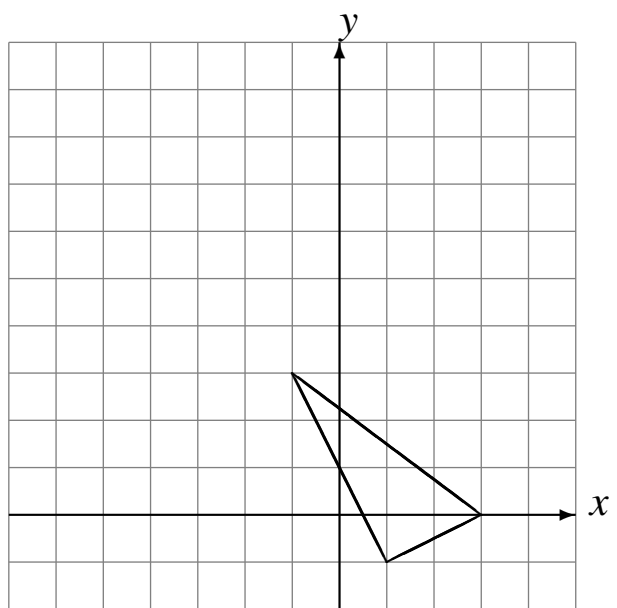
Rotate  $180^\circ$  about  $(3, -2)$ .



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



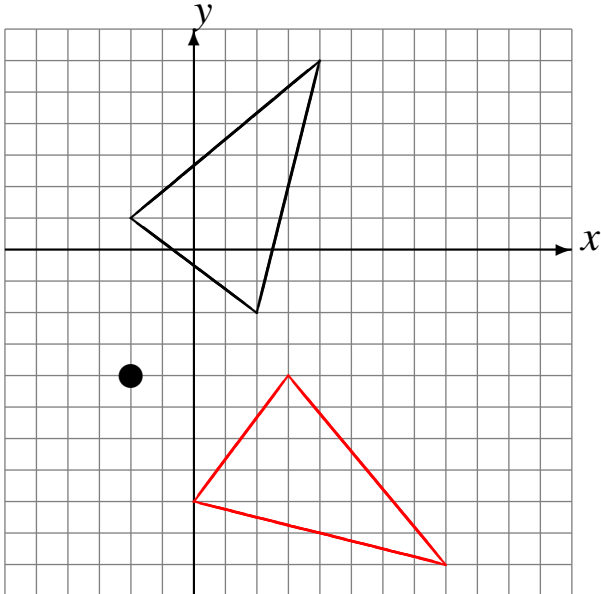
Rotate  $90^\circ$  counterclockwise about  $(-4, 2)$ .



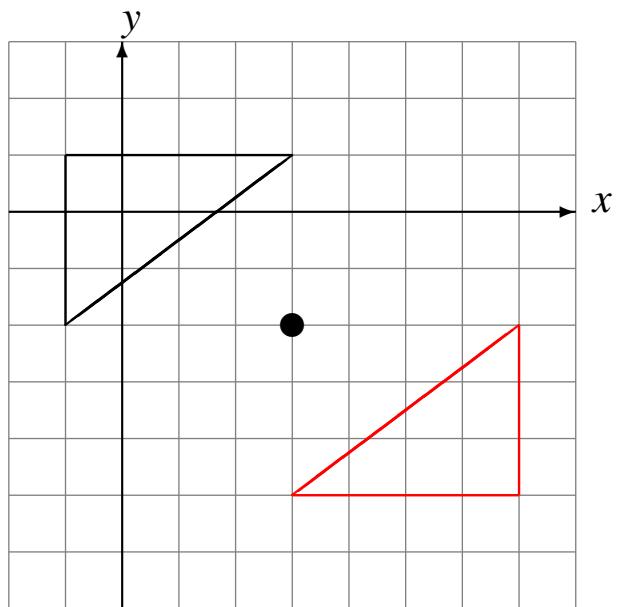
# Rotations (F) Answers

Draw the rotated image.

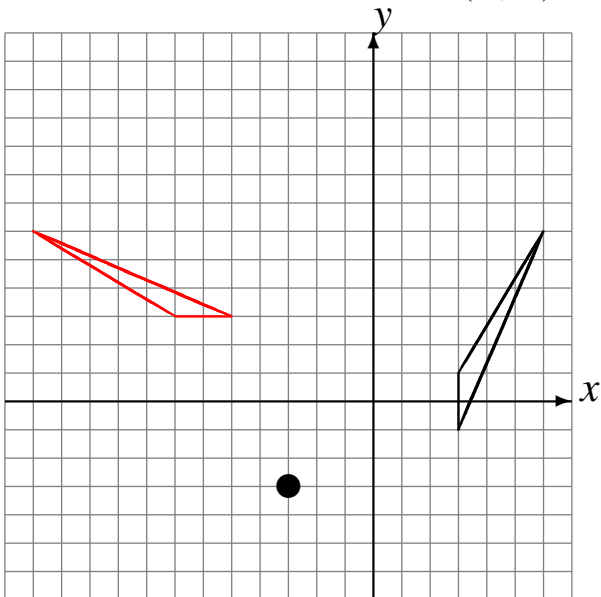
Rotate  $90^\circ$  clockwise about  $(-2, -4)$ .



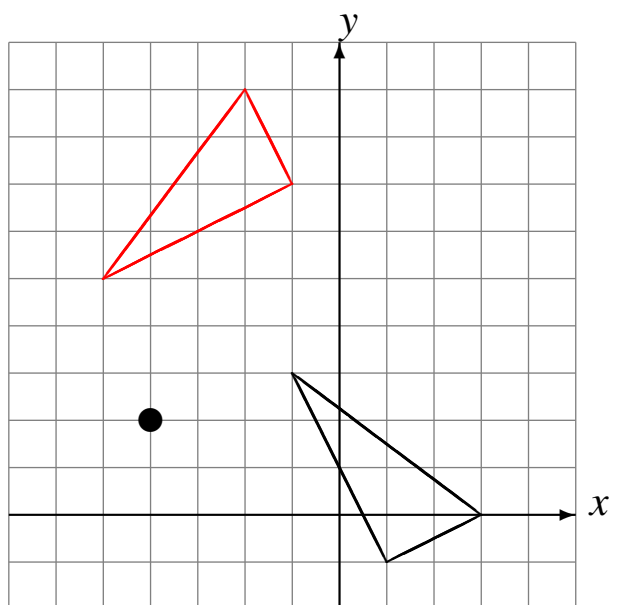
Rotate  $180^\circ$  about  $(3, -2)$ .



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



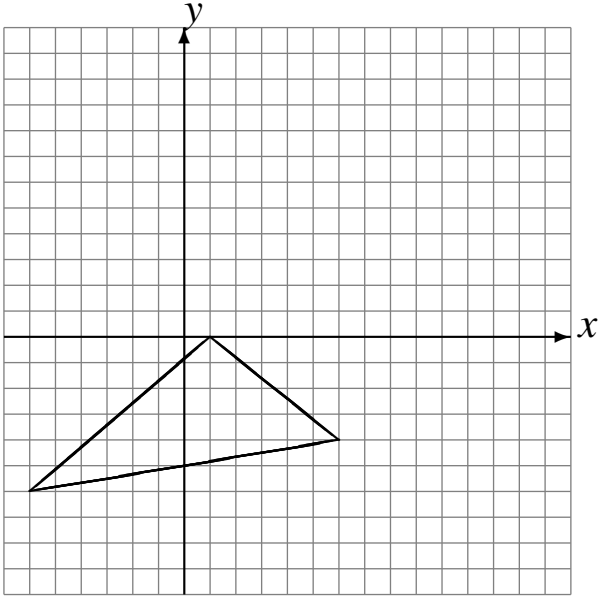
Rotate  $90^\circ$  counterclockwise about  $(-4, 2)$ .



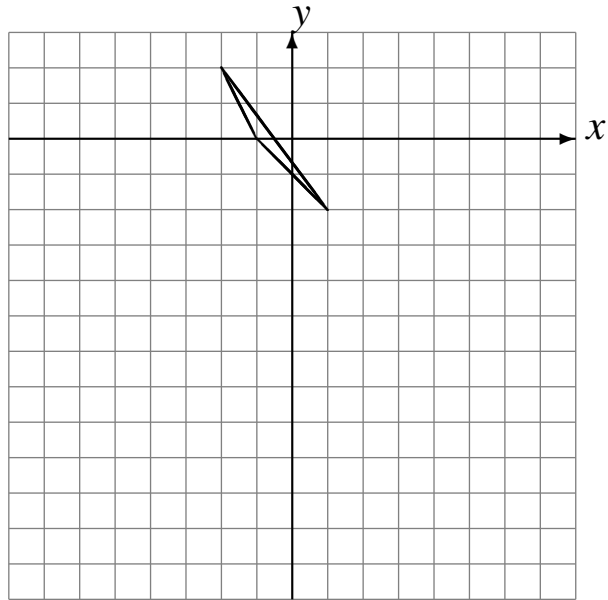
# Rotations (G)

Draw the rotated image.

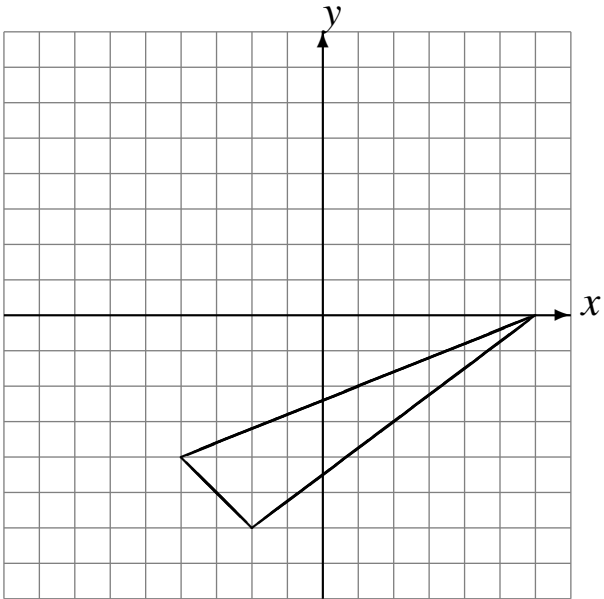
Rotate  $180^\circ$  about  $(4, 1)$ .



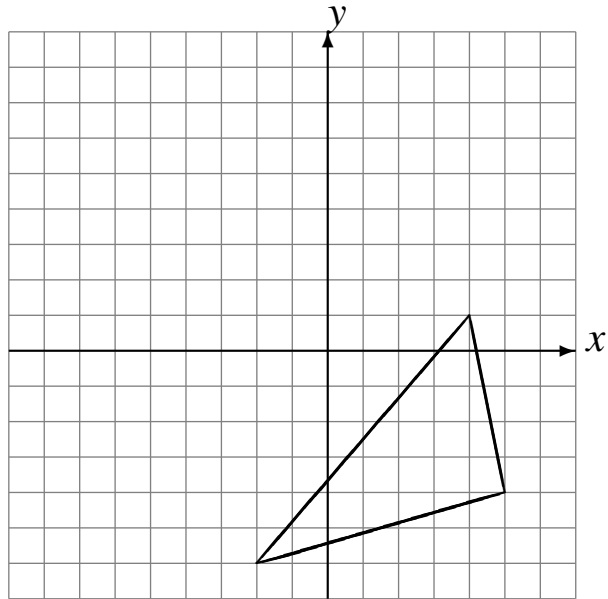
Rotate  $180^\circ$  about  $(0, -5)$ .



Rotate  $180^\circ$  about  $(-1, 0)$ .



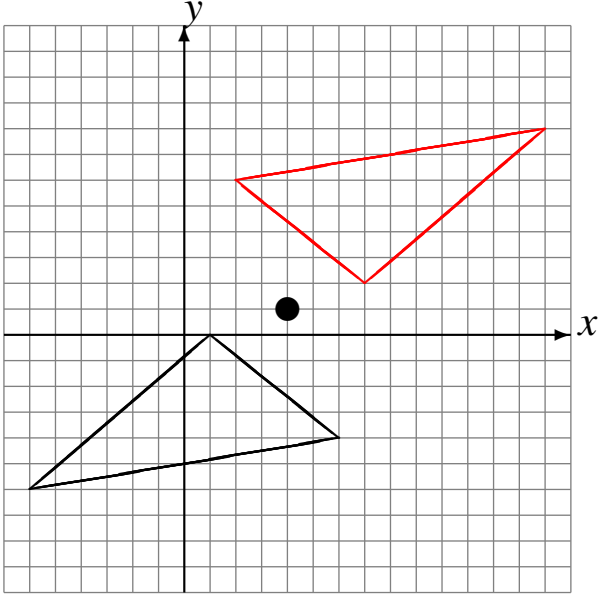
Rotate  $180^\circ$  about  $(-1, 1)$ .



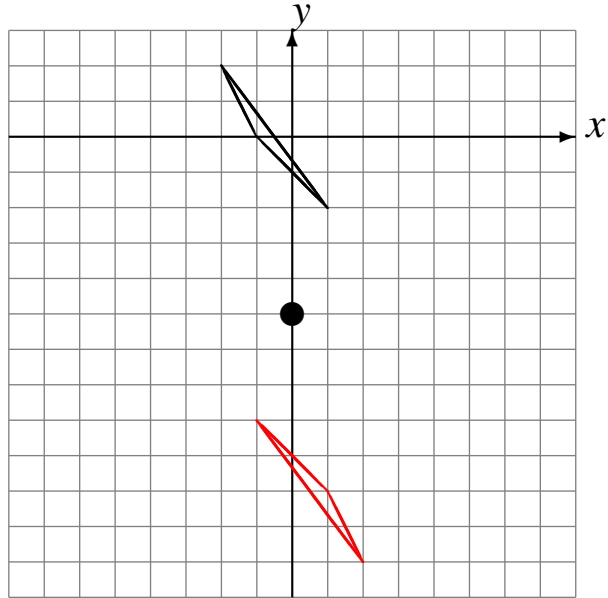
# Rotations (G) Answers

Draw the rotated image.

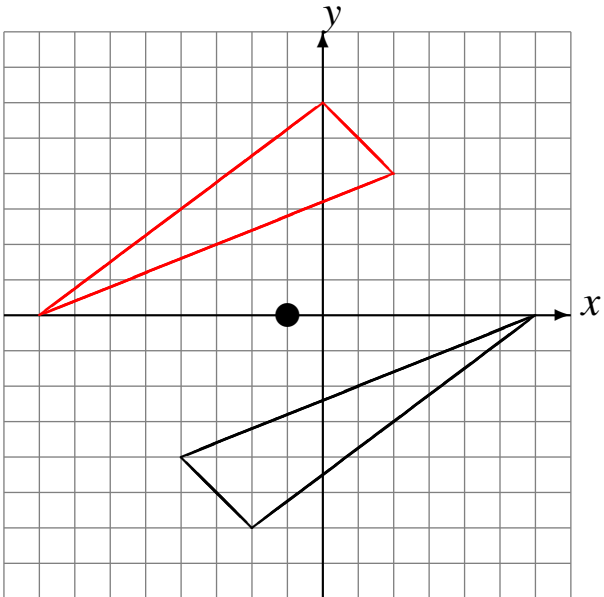
Rotate  $180^\circ$  about  $(4, 1)$ .



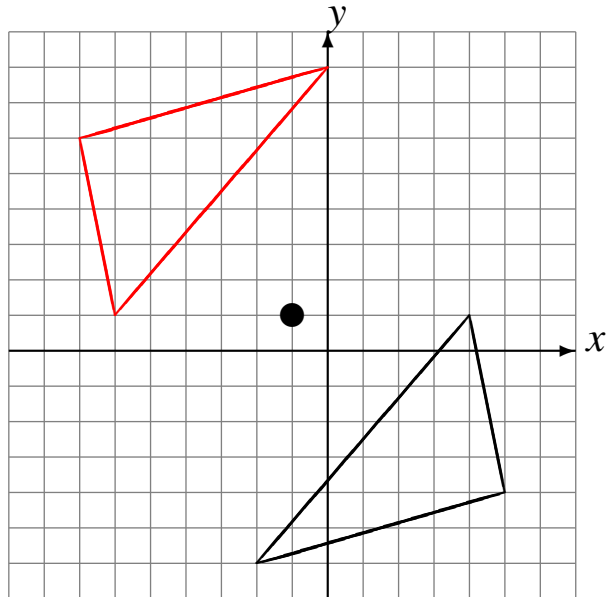
Rotate  $180^\circ$  about  $(0, -5)$ .



Rotate  $180^\circ$  about  $(-1, 0)$ .



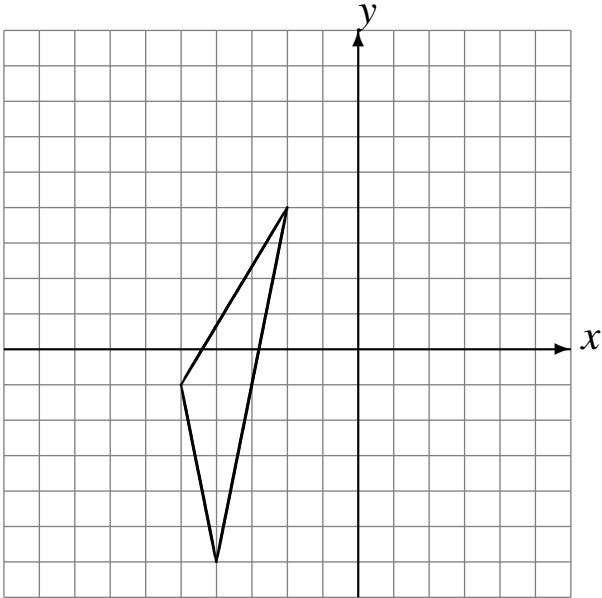
Rotate  $180^\circ$  about  $(-1, 1)$ .



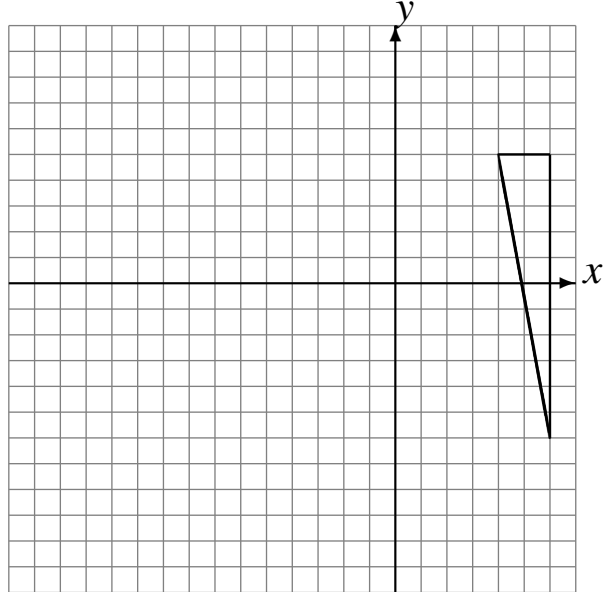
# Rotations (H)

Draw the rotated image.

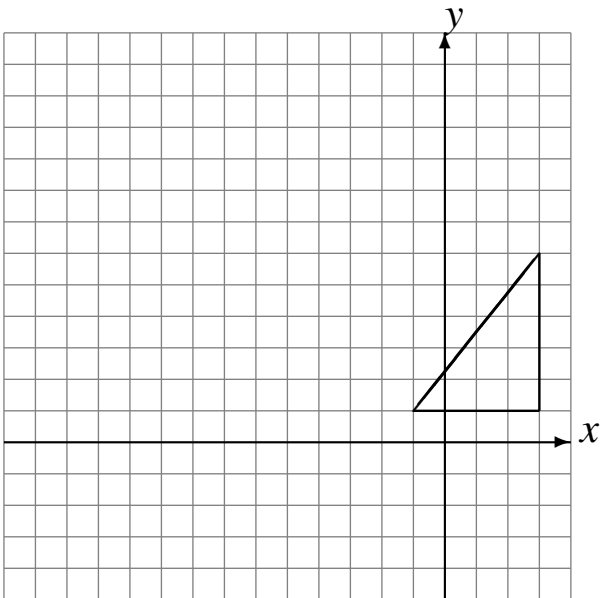
Rotate  $180^\circ$  about  $(-3, 1)$ .



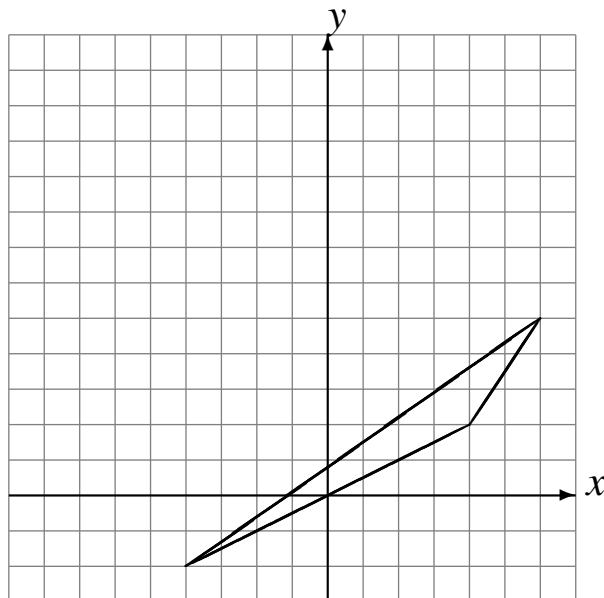
Rotate  $90^\circ$  clockwise about  $(-5, 3)$ .



Rotate  $180^\circ$  about  $(-5, 4)$ .



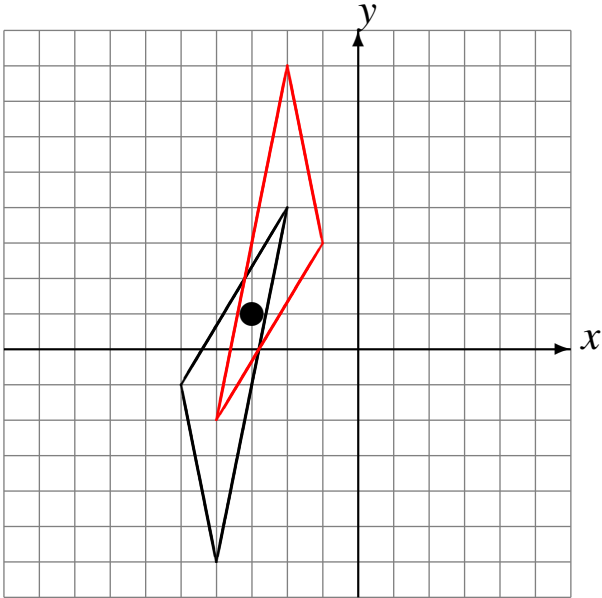
Rotate  $90^\circ$  counterclockwise about  $(-4, 1)$ .



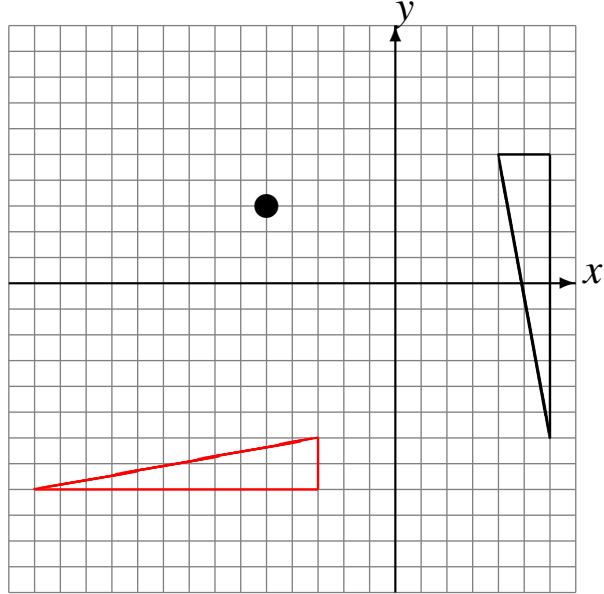
# Rotations (H) Answers

Draw the rotated image.

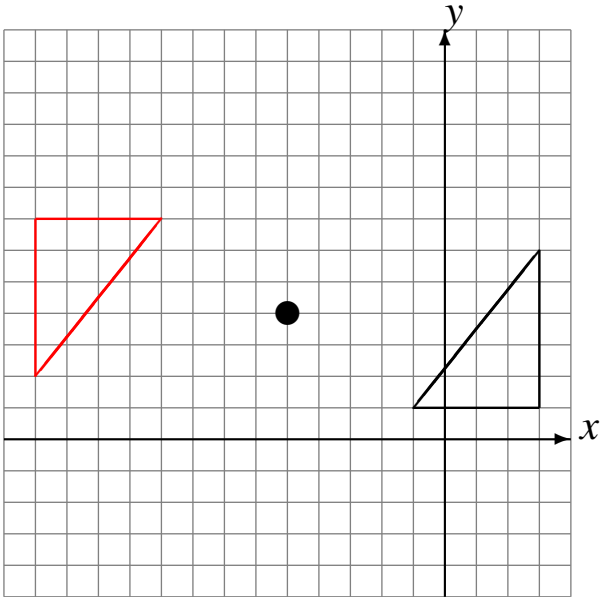
Rotate  $180^\circ$  about  $(-3, 1)$ .



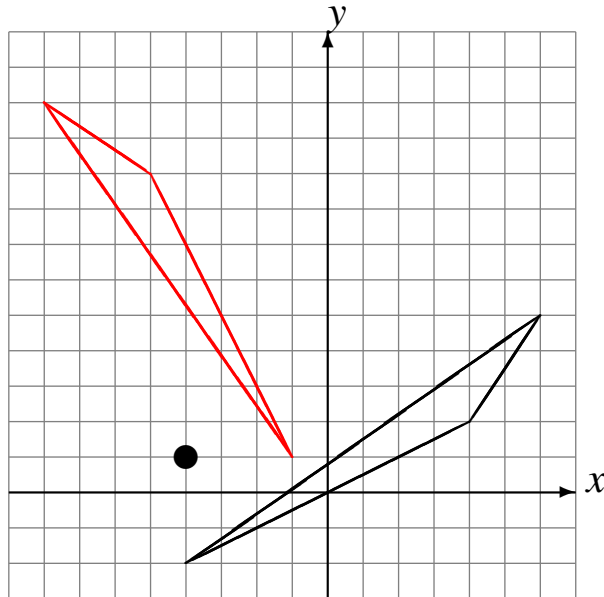
Rotate  $90^\circ$  clockwise about  $(-5, 3)$ .



Rotate  $180^\circ$  about  $(-5, 4)$ .



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

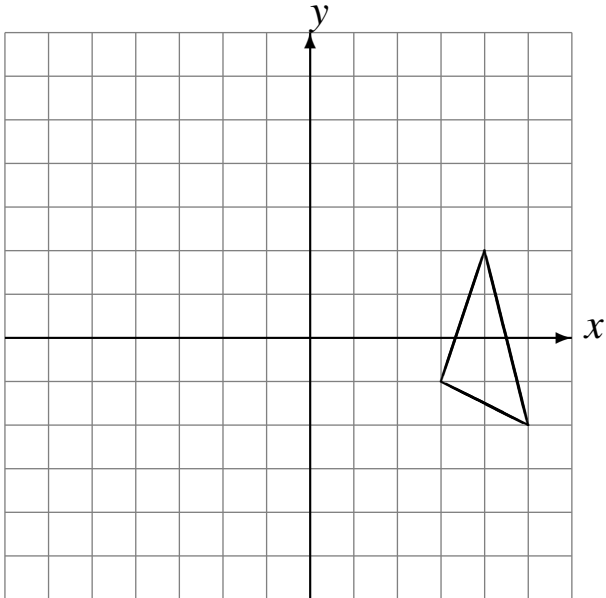




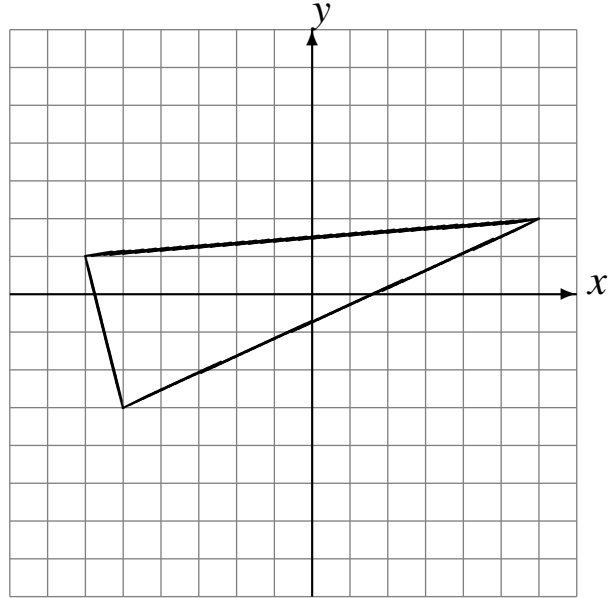
# Rotations (I)

Draw the rotated image.

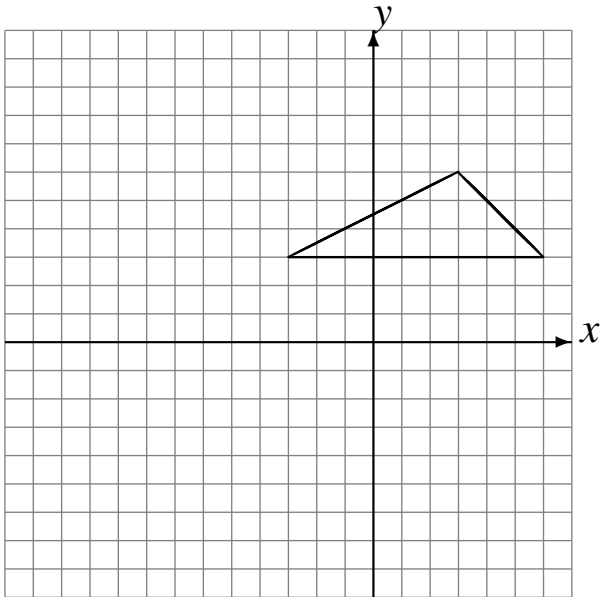
Rotate  $90^\circ$  clockwise about  $(0, 4)$ .



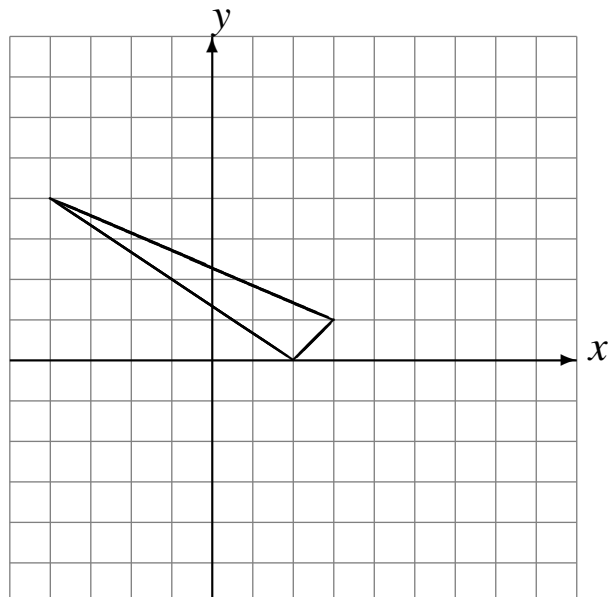
Rotate  $90^\circ$  counterclockwise about  $(-2, -3)$ .



Rotate  $180^\circ$  about  $(-3, 1)$ .



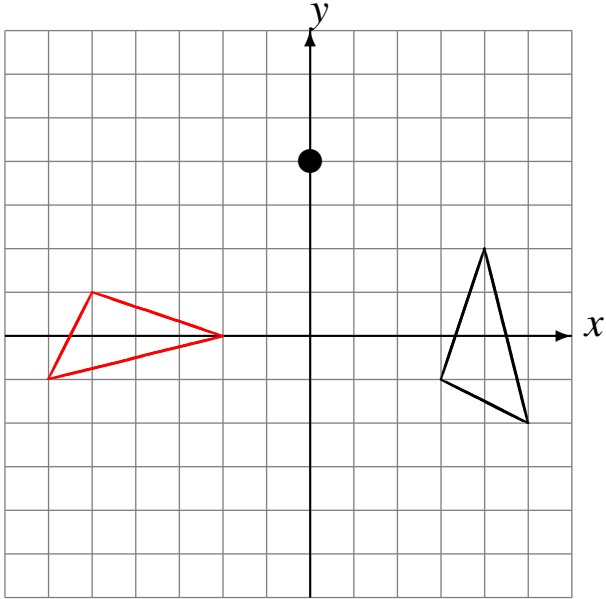
Rotate  $180^\circ$  about  $(2, 1)$ .



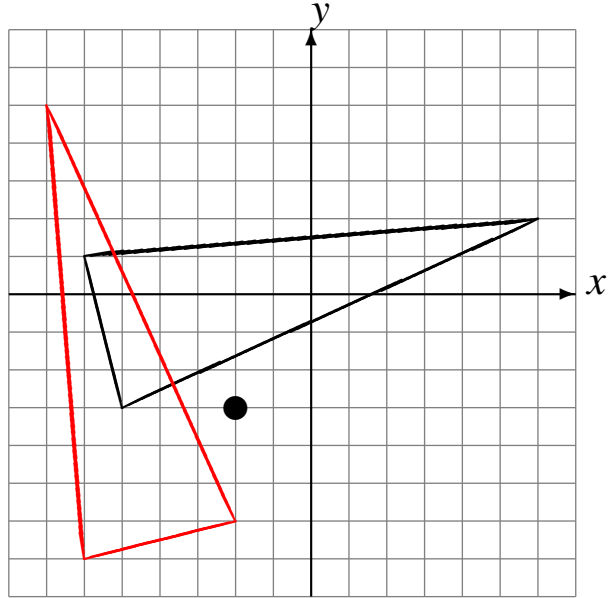
# Rotations (I) Answers

Draw the rotated image.

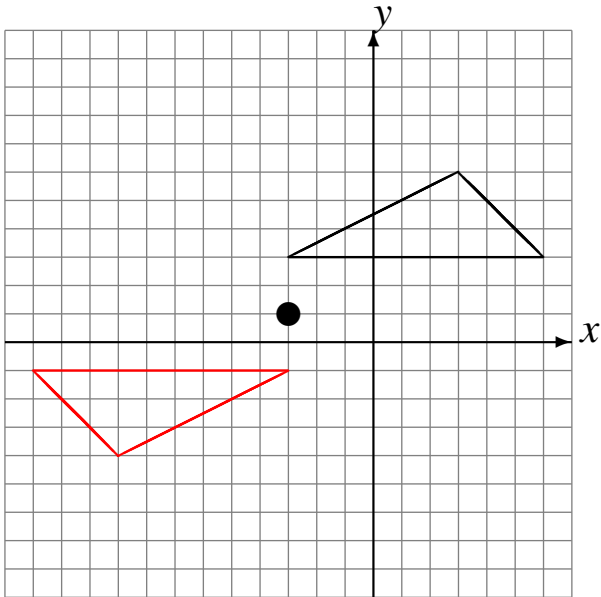
Rotate  $90^\circ$  clockwise about  $(0, 4)$ .



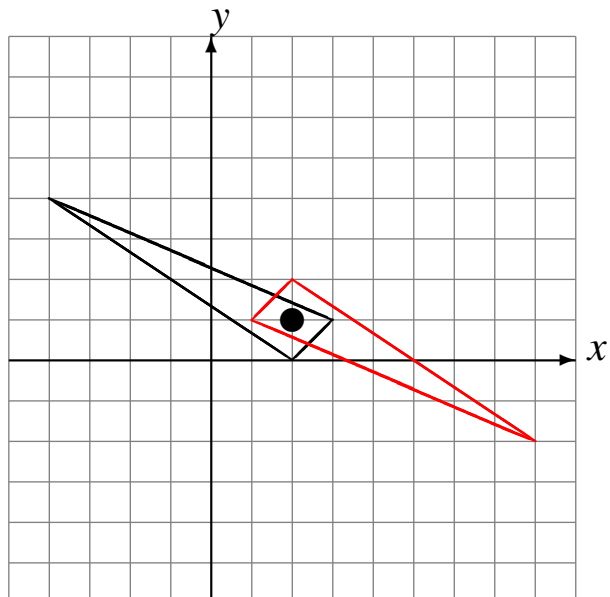
Rotate  $90^\circ$  counterclockwise about  $(-2, -3)$ .



Rotate  $180^\circ$  about  $(-3, 1)$ .



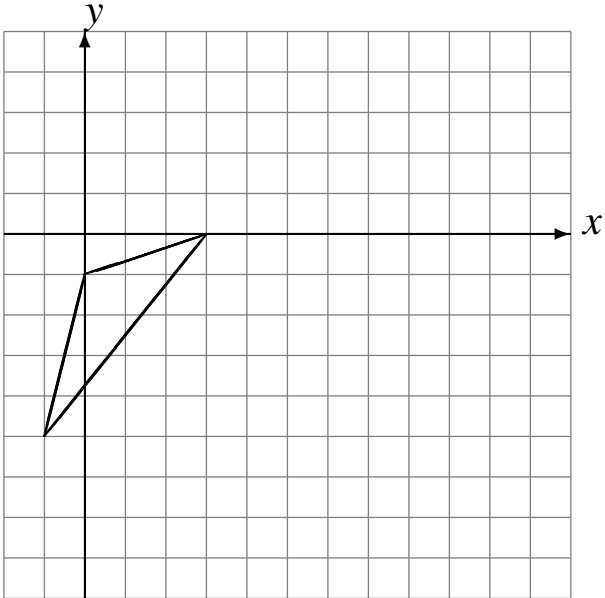
Rotate  $180^\circ$  about  $(2, 1)$ .



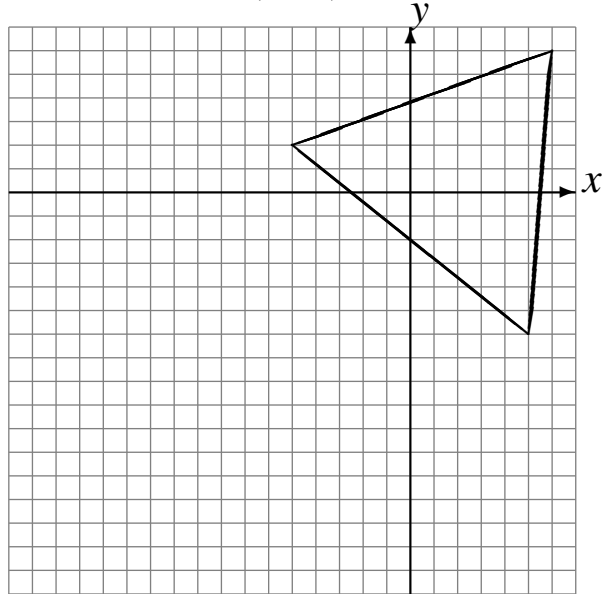
# Rotations (J)

Draw the rotated image.

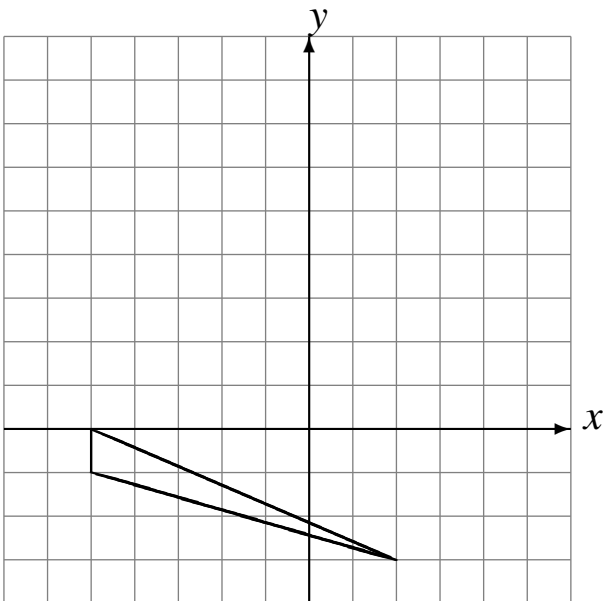
Rotate  $90^\circ$  counterclockwise about  $(4, 2)$ .



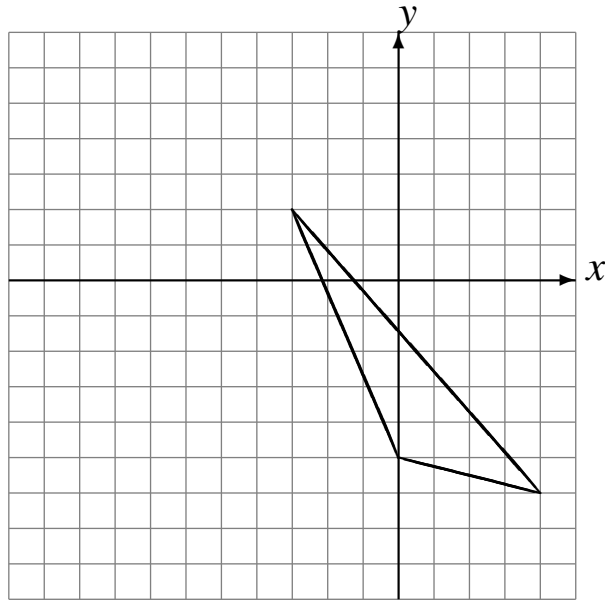
Rotate  $180^\circ$  about  $(-5, -5)$ .



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



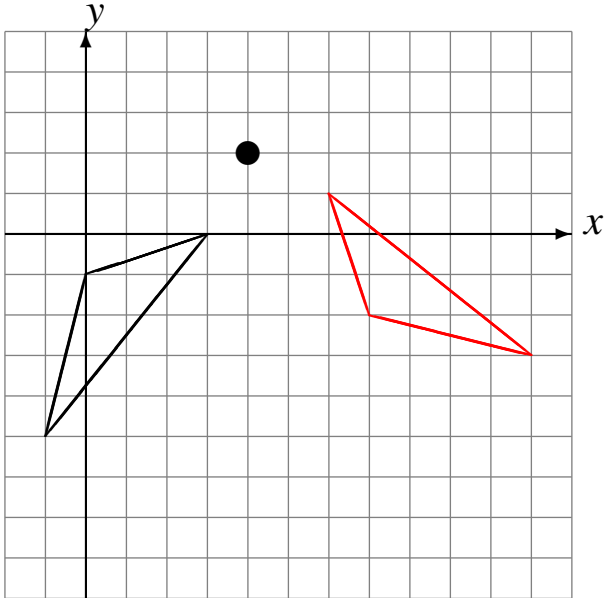
Rotate  $180^\circ$  about  $(-3, -1)$ .



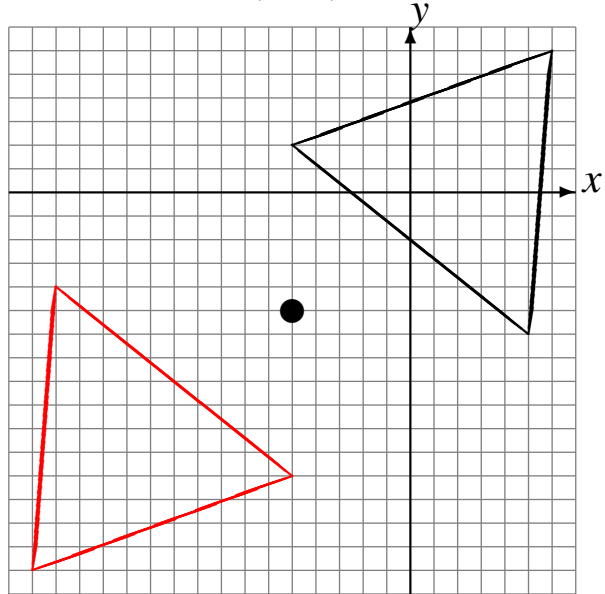
# Rotations (J) Answers

Draw the rotated image.

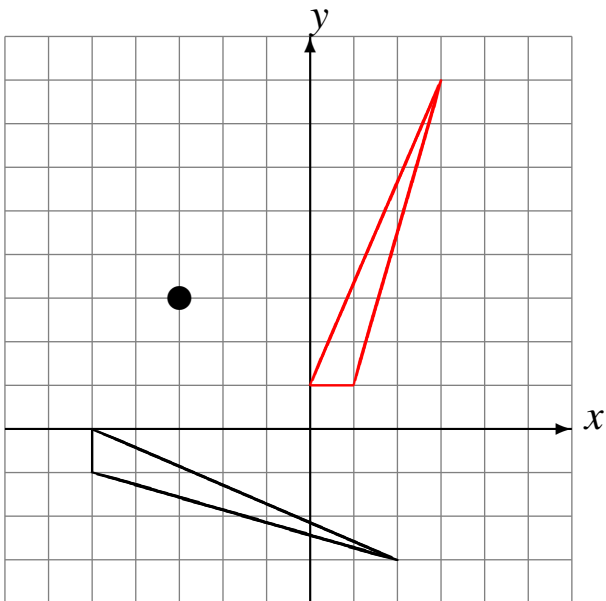
Rotate  $90^\circ$  counterclockwise about  $(4, 2)$ .



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



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



Rotate  $180^\circ$  about  $(-3, -1)$ .

