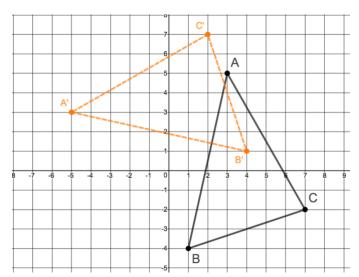
Go to page 2 for the SOLUTIONS to the Homework. Make sure you check your work.

For questions 1-7, use the following transformations with each question:

- 90 degree rotation
- 180 degree rotation
- 270 degree rotation
- 1. What is the image of A(-1,5)?
- 2. What is the image of A'?
- 3. What is the preimage of D'(15,-3)?
- 4. What is the image of B(2a, 3b)?
- 5. What is the image of F(x 5, 2y 8)?
- 6. What is the preimage of G(a, 4b)?
- 7. What is the preimage of C(3x 12, -y 2)?

Use the figure below to answer each question.



- 1. Write a rule that would map $\triangle ABC$ onto $\triangle A'B'C'$.
- 2. What transformation is represented? List another transformation that would yield the same result.

Answer Key

For questions 1-7, use the following transformations with each question:

90 degree rotation 180 degree rotation

270 degree rotation

1. What is the image of A(

a. 90 degree rotation A'(-5, -1

180 degree rotation

270 degree rotation A'(5

2. What is the image of A'?

a. 90 degree rotation A"(1

180 degree rotation A

270 degree rotation A"(1

3. What is the preimage of D'(15.-

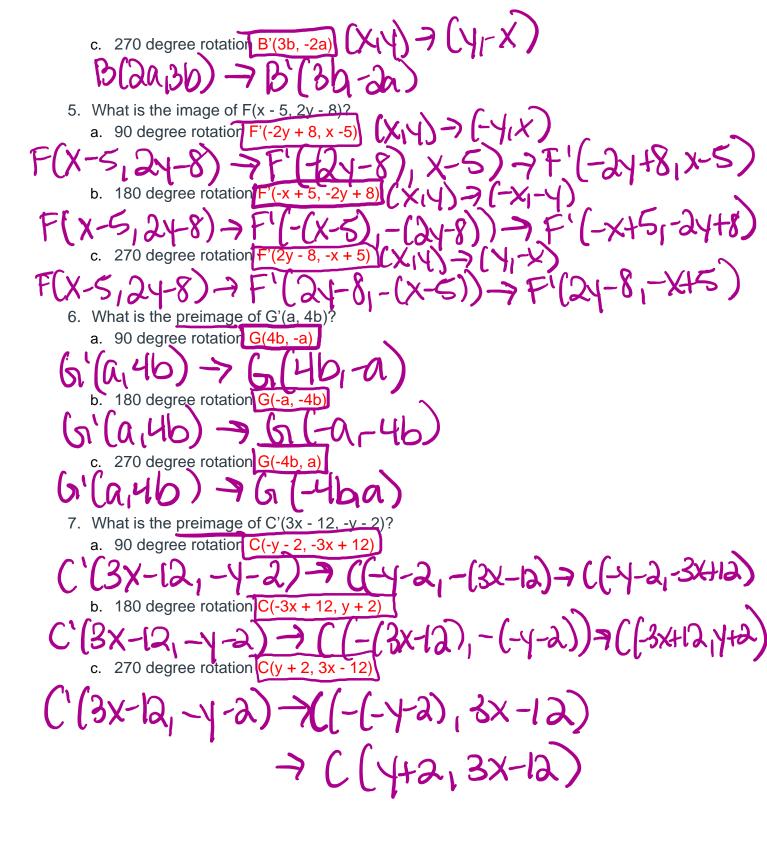
a. 90 degree rotation D(-3, -15

180 degree rotation D(-15, 3)

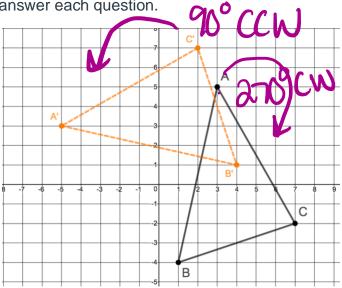
270 degree rotation D(3, 15)

4. What is the image of B(2a, 3b)?

a. 90 degree rotation B'(-3b, 2a)



Use the figure below to answer each question.



A(3,5)>A'(5,3)
B(1,4)>B(4,1)
C(7,-2)>7('(2,7)

1. Write a rule that would map $\triangle ABC$ onto $\triangle A'B'C'$.

(X1Y-) (-Y1X)

T(x, y) -> (-y, x)

2. What transformation is represented? List another transformation that would yield the same result.

90 degree rotation or 270 degree clockwise rotation

270° Clockwise 15 the Same as