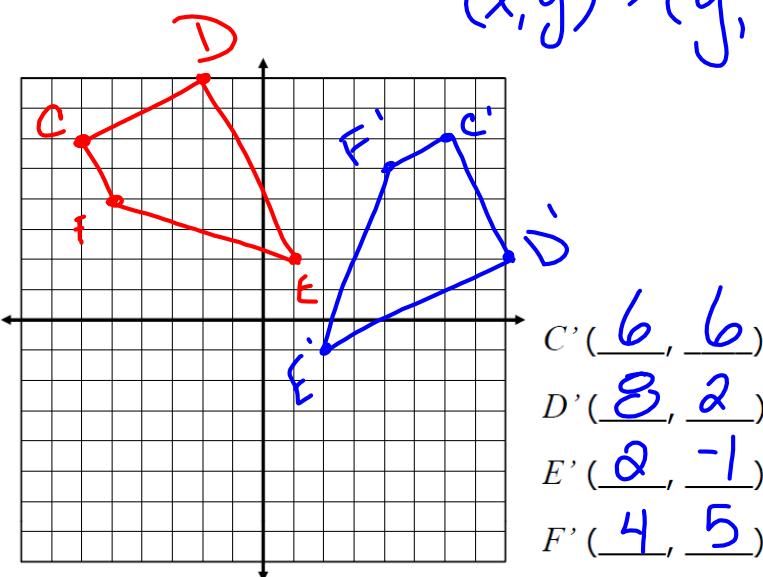


Do Now:

Trapezoid CDEF with vertices C(-6, 6), D(-2, 8), E(1, 2) and F(-5, 4). Rotate 270° counterclockwise

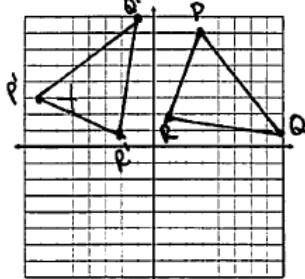
$$(x, y) \rightarrow (y, -x)$$



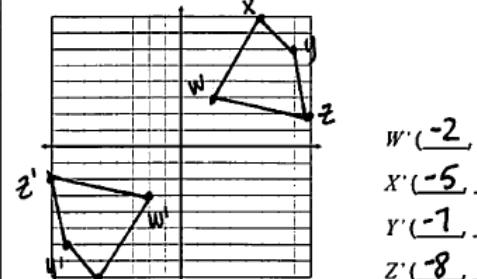
Sep 3-9:31 PM

HW Answers

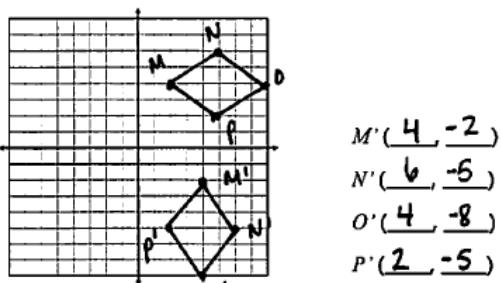
1. Triangle PQR with vertices P(3, 7), Q(8, 1), and R(1, 2): 90° counterclockwise



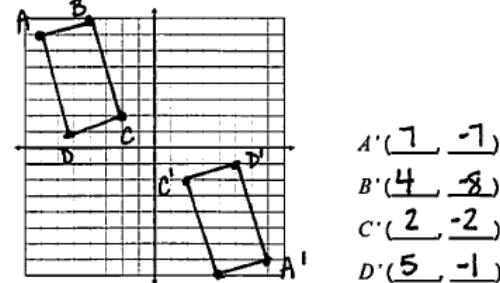
2. Quadrilateral WXYZ with vertices W(2, 3), X(5, 8), Y(7, 6), and Z(8, 2): 180°



3. Rhombus MNOP with vertices M(2, 4), N(5, 6), O(8, 4), and P(5, 2): 270° counterclockwise



4. Rectangle ABCD with vertices A(-7, 7), B(-4, 8), C(-2, 2), and D(-5, 1): 180°



Aug 30-12:01 PM

Rotation Rules

Counterclockwise 270° $(x, y) \rightarrow (y, -x)$

Counterclockwise 90° $(x, y) \rightarrow (-y, x)$

Counterclockwise 180° $(x, y) \rightarrow (-x, -y)$

Sep 3-9:31 PM

Finding Image Points for Rotations

1) What is A' when point $A (-3, 4)$ is rotated 90° counterclockwise?

$$(x, y) \rightarrow (-y, x) \quad A(-3, 4) \rightarrow A'(-4, -3)$$

2) What is F' when point $F (7, -3)$ is rotated 270° counterclockwise?

$$(x, y) \rightarrow (y, -x) \quad F(7, -3) \rightarrow F'(-3, 7)$$

3) What is W' when point $W (-2, -5)$ is rotated 180° counterclockwise?

$$(x, y) \rightarrow (-x, -y)$$

$$W(-2, -5) \rightarrow W'(2, 5)$$

Feb 7-6:44 AM

Writing Rotation Rules given the pre-image and image points

4) $P(-4, 5) \rightarrow P'(4, -5)$

180° counterclockwise

5) $X(2, -3) \rightarrow X'(3, 2)$

$(x, y) \rightarrow (-y, x)$

90°

Counterclockwise

6) $Q(-5, -3) \rightarrow Q'(-3, 5)$

$(x, y) \rightarrow (y, -x)$

270°

Counterclockwise

Feb 7-6:46 AM

Attachments

BigQ