

Reflections #3

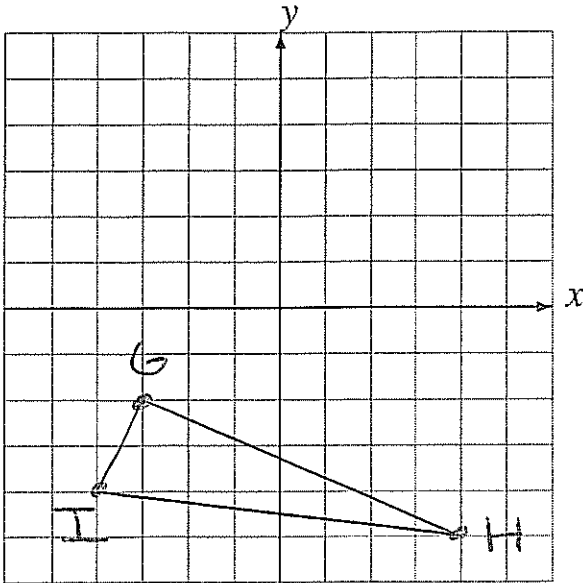
Name: _____

Date: _____

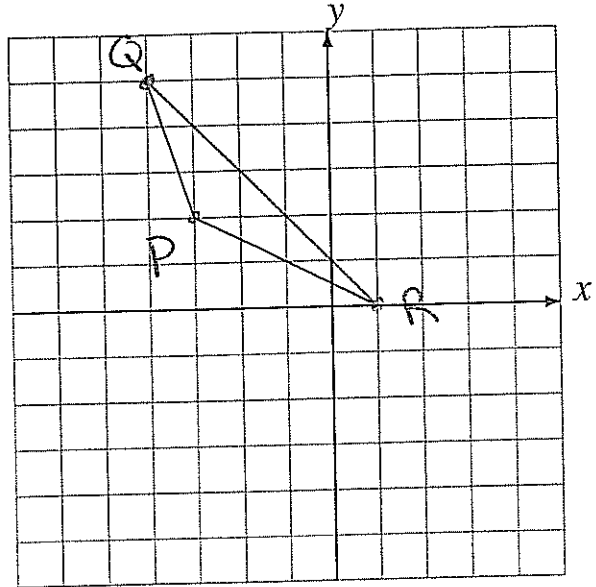
Period: _____

Reflect each shape according to the directions.

1. Reflect across the y-axis



2. Reflect across the x-axis



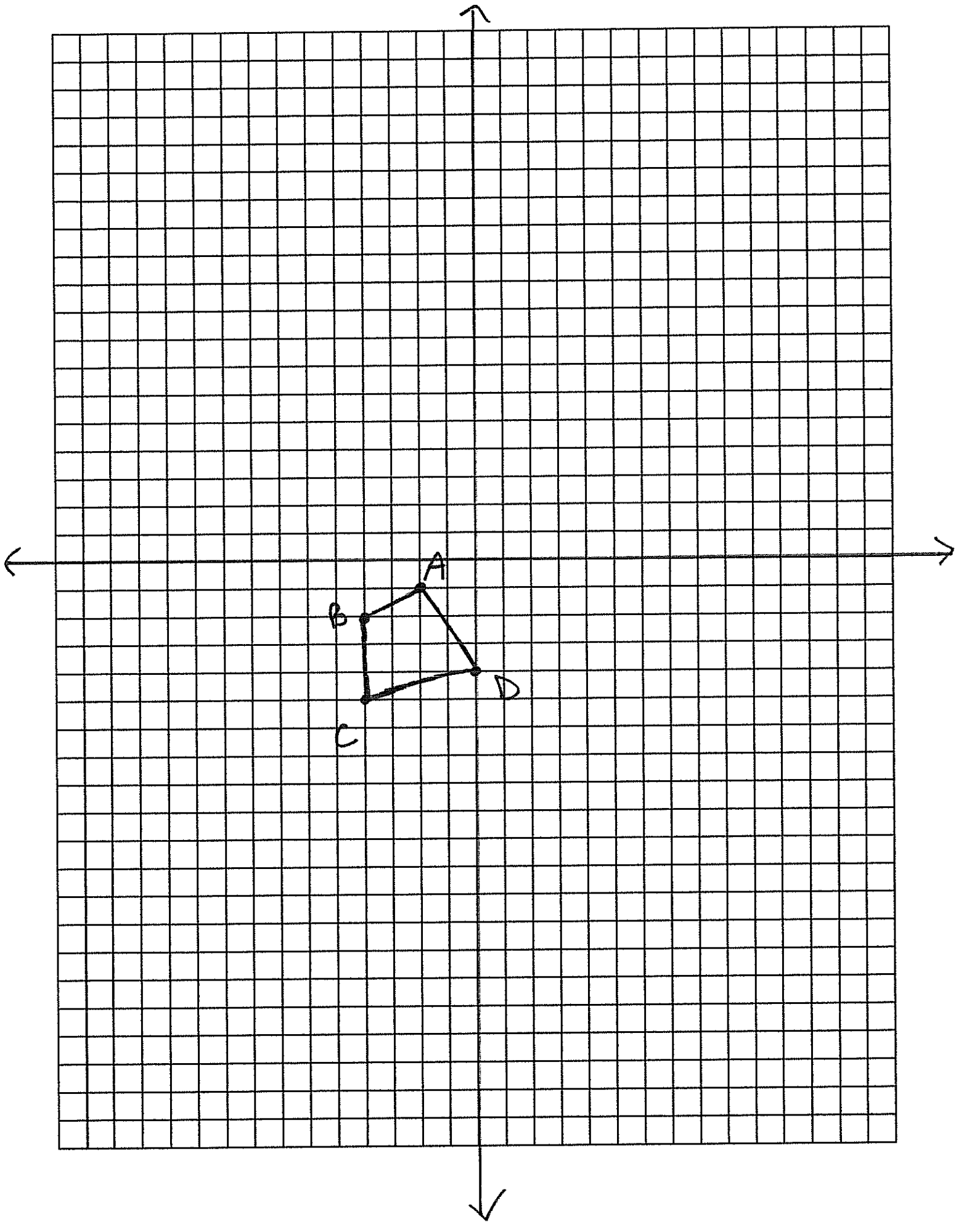
3. Without graphing finding the ordered pairs of quadrilateral PQRS after a reflection over the x-axis. Show your work

$P(4, -9)$

$Q(-1, 5)$

$R(-3, -10)$

$S(1, 7)$



Complete the following transformations on the graph paper. Hint: you may want to use different colored pens/pencils for each quadrilateral so you can keep track of each one a little easier.

Rotate quadrilateral ABCD 90° clockwise about (2, 3)

Translate quadrilateral ABCD (5, -8)

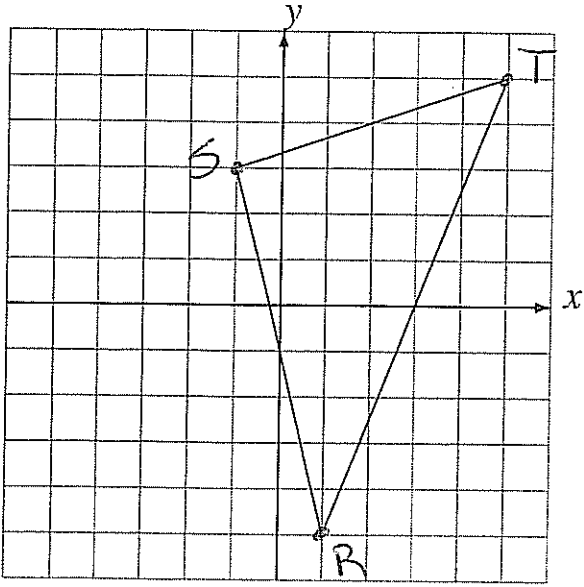
Reflect quadrilateral $A''B''C''D''$ over the x-axis

Rotate quadrilateral $A'''B'''C'''D'''$ 90° counterclockwise about (0, 0)

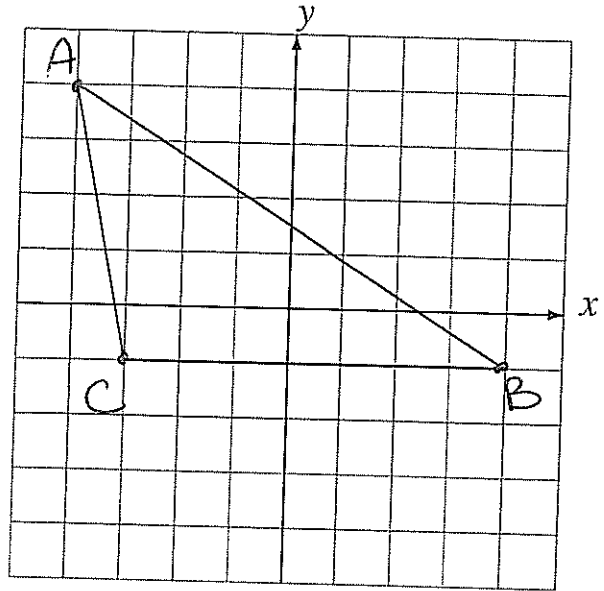
In your own words explain in detail how you can prove that quadrilateral $A''B''C''D''$ is congruent to $A'''B'''C'''D'''$.

In your own words explain in **detail** how you can **prove** that quadrilateral ABCD is congruent to quadrilateral $A'B'C'D'$.

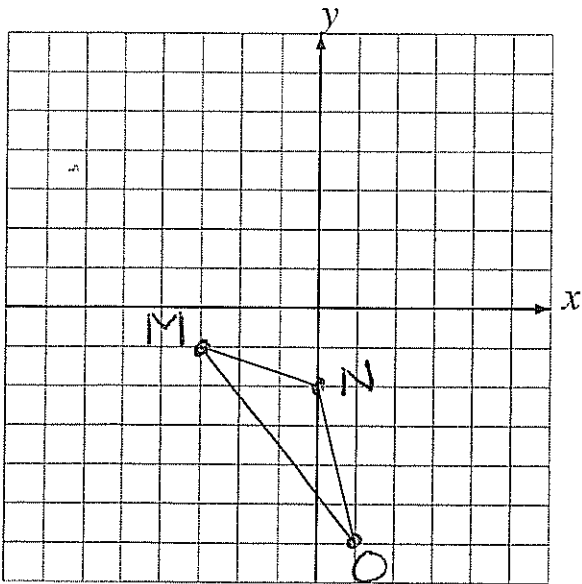
4. Reflect over $x = 1$



5. Reflect over the y-axis



6. Reflect over $y = -2$



7. Reflect over the x-axis

