

Name: _____ Teacher: _____

Date: _____

Unit 2 – TEST 2 Review

Lessons 12-21

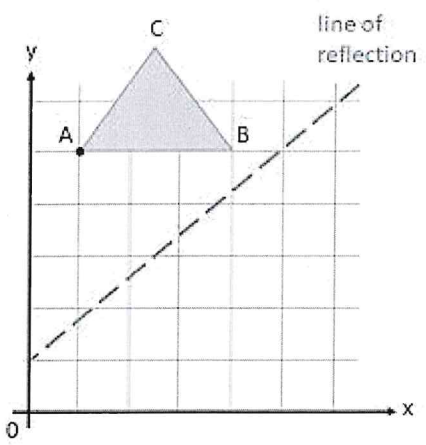
Work every problem to the best of your ability. Show all work. Circle your answers.

1. Define a rotation.

2. Define a reflection

3. Define a translation.

Find the Reflection of the shape below.



4.) $A'(\quad , \quad)$

$B'(\quad , \quad)$

$C'(\quad , \quad)$

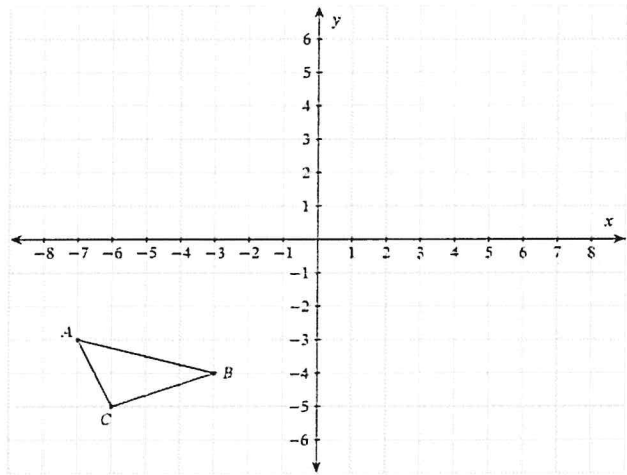
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Rotate the following shape 90 degrees clockwise, then write the new image coordinates.



5.) $A' (\quad , \quad)$ $B' (\quad , \quad)$ $C' (\quad , \quad)$

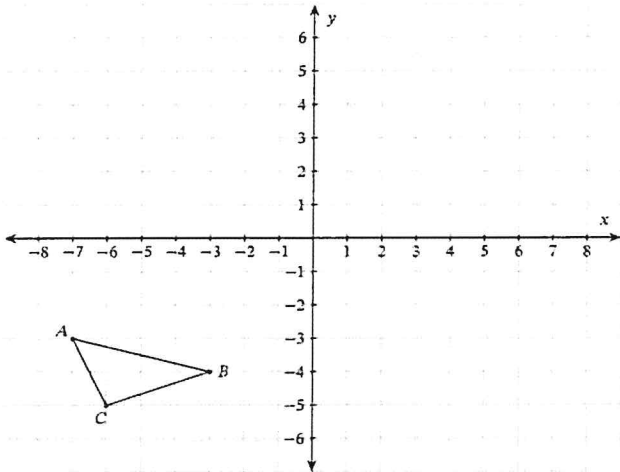
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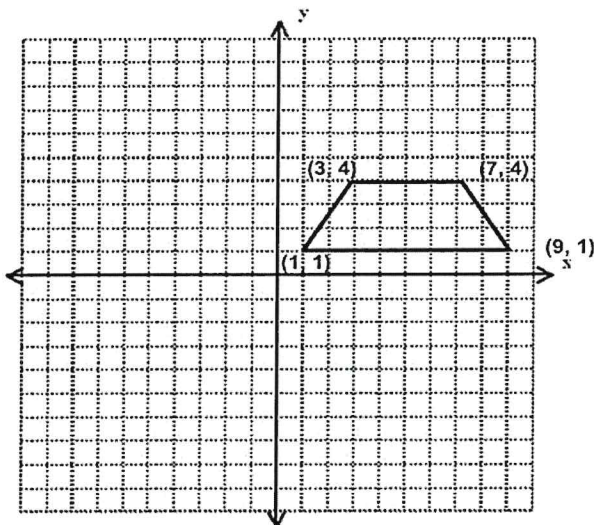
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Rotate the shape 60 degree clockwise, then write the new image coordinates.



6.) $A' (\quad , \quad)$ $B' (\quad , \quad)$ $C' (\quad , \quad)$

7.) Draw the reflection of the shape below across the X-axis and list the coordinates.



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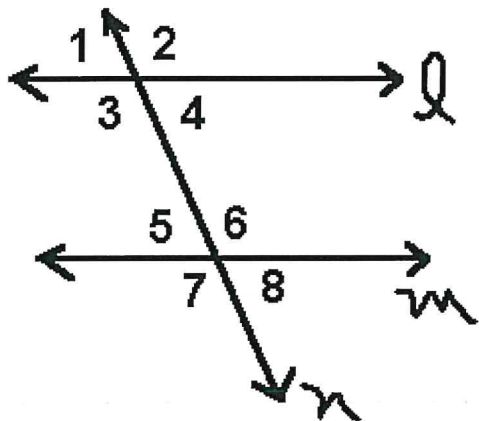
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Find the measure of each angle. List the reason you used to determine the angle measure.

Given angle $m\angle 6$ is 104 degrees.



8. $m\angle 1 =$ _____ Reason and angle you connected to = _____

9. $m\angle 5 =$ _____ Reason and angle you connected to = _____

10. $m\angle 6 =$ _____ Reason and angle you connected to = _____

11. $m\angle 8 =$ _____ Reason and angle you connected to = _____

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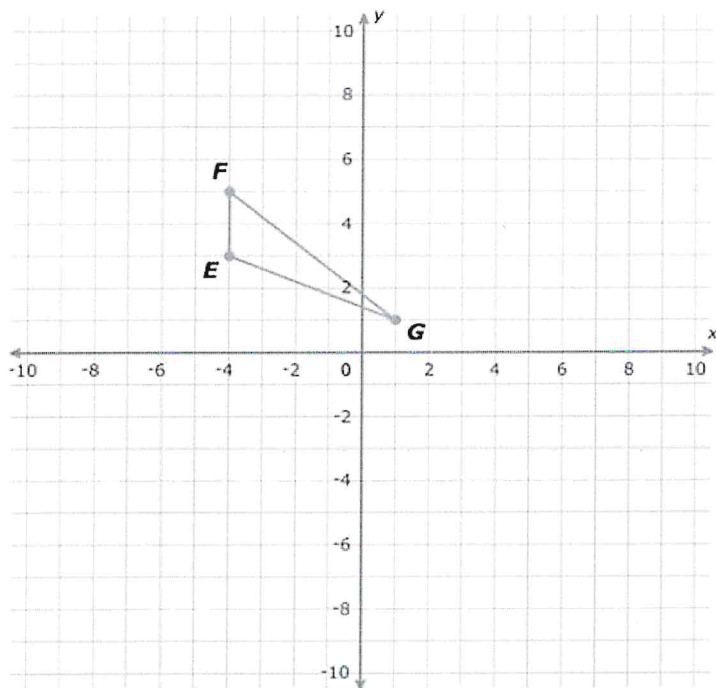
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12.) Find the new image using the pre-image.

Graph the image of $\triangle EFG$ after a translation 4 units left and 2 units down.



E' (,) F' (,) G' (,)

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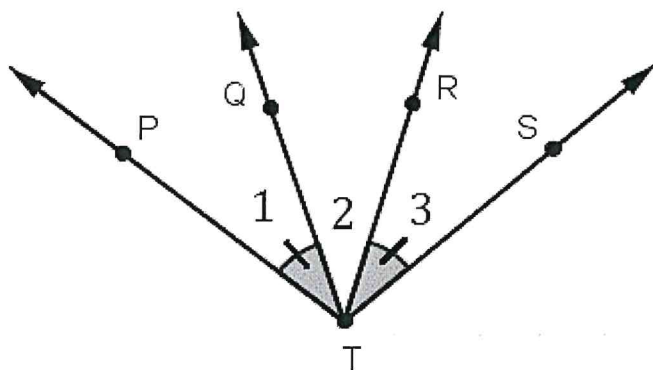
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13.) Complete the proof

Given > see visual

Prove $\angle 1$ is congruent to angle 3



Statements _____

Reasons _____

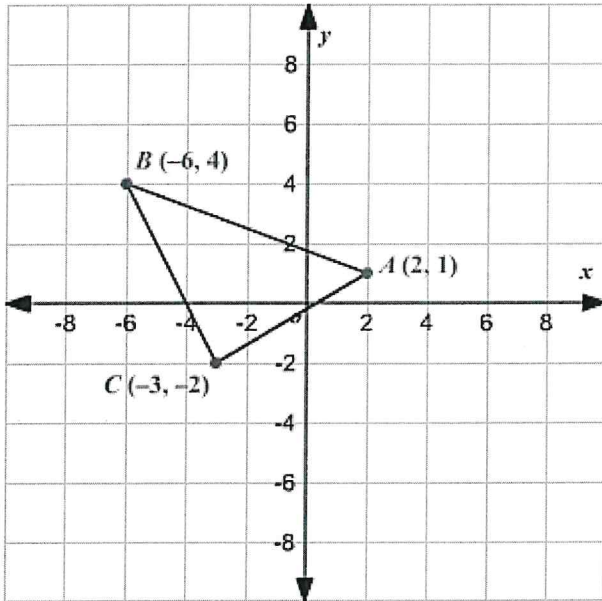
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14.) 2 transformations. Draw the first new image with a reflection on the y-axis. Then create the next new image with a translation of left 2 and down 1.



1st New Image:

A' (,) B' (,) C' (,)

2nd New Image

A'' (,) B'' (,) C'' (,)

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15.) What would the coordinates be for a reflection of these coordinates across the x-axis?

A(7, 13)

A'(,)

B(2, -5)

B'(,)

C(2, 1)

C'(,)

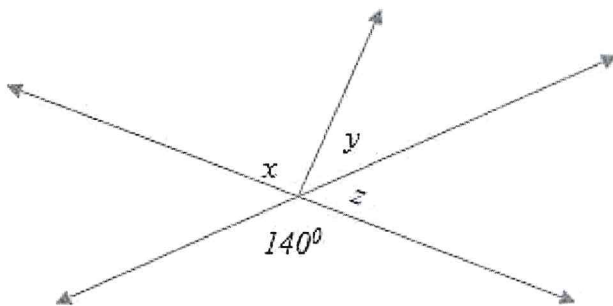
D(8, -7)

D'(,)

16.) What is the rule for reflections across the x-axis?

17.) Find the measure of the missing angles.

X= _____ Y= _____ Z= _____



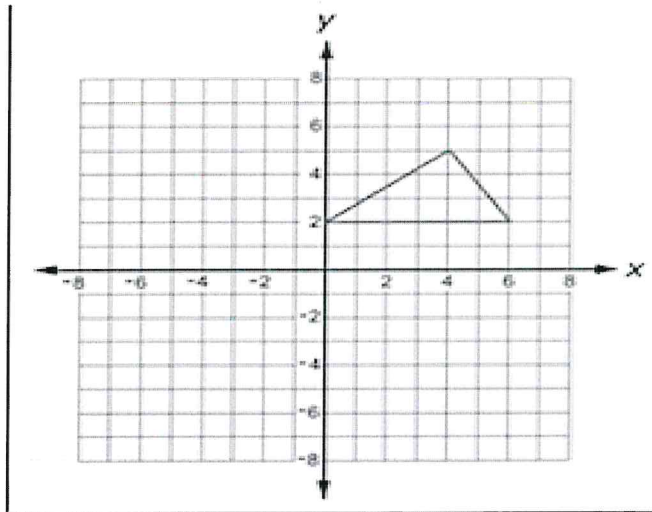
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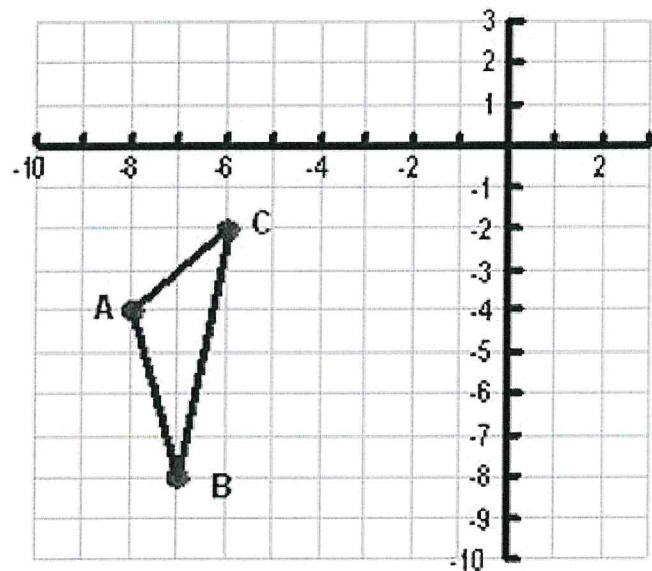
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18.) Reflect across $x=2$. Draw the new image.



19.) Rotate around origin 45 degrees counterclockwise.



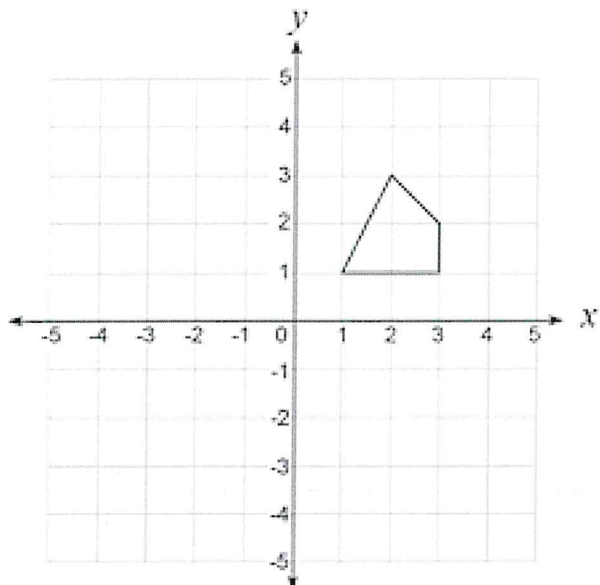
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20.) Complete the reflection across the y-axis.



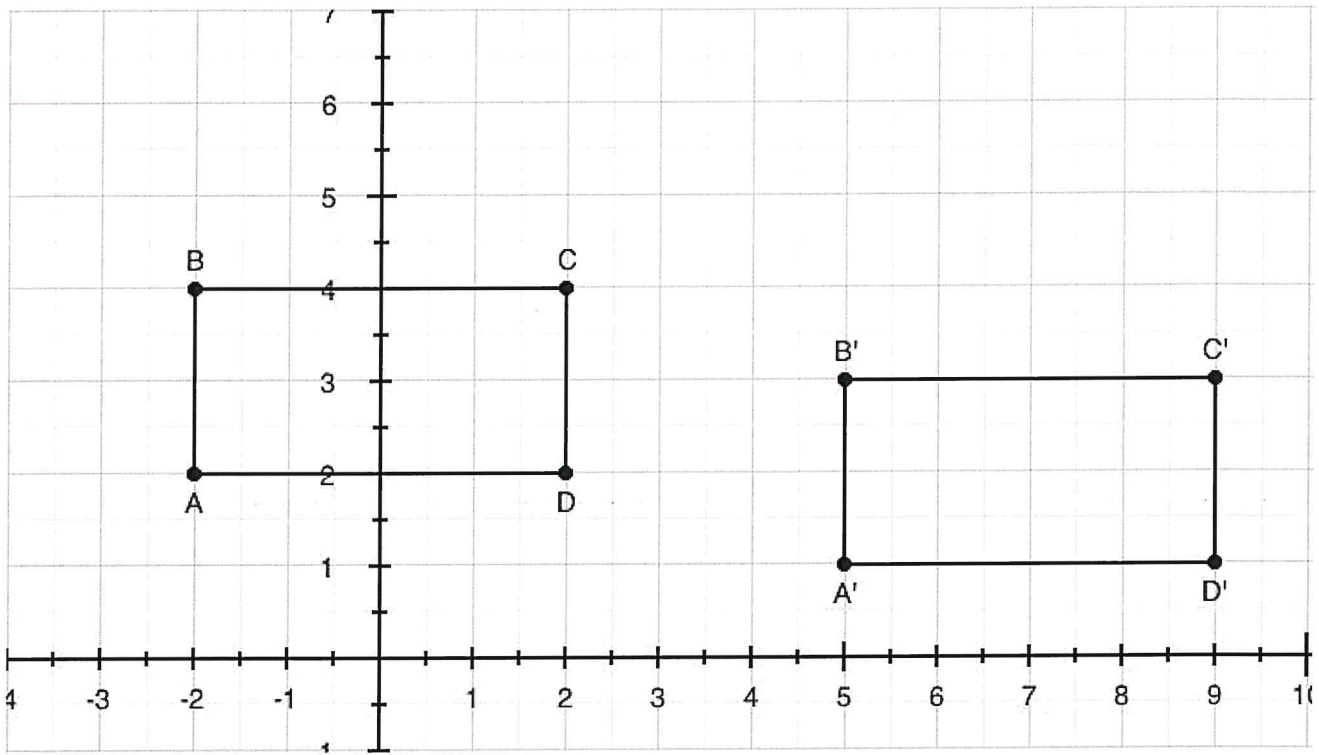
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21.) Write the translation as the following: $(x, y) \rightarrow (x \quad , y \quad)$. Then write all the coordinates for each graph.



A(,)

B(,)

C(,)

A'(,)

B'(,)

C'(,)

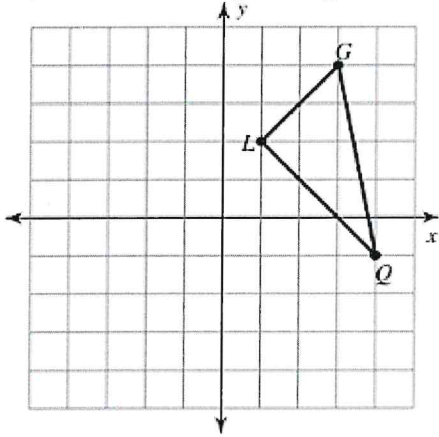
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22.) Translate image using the following sequence: $(x, y) \rightarrow (x-2, y+2)$. Write the new image coordinates.



L' (,)

G' (,)

Q' (,)