	(1/)		
Name:	(k)	M/	
Date:		$-V_{-}$	

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.



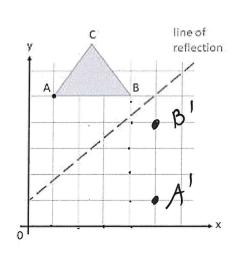
2. Define a reflection



3. Define a translation.

lide mount

Find the Reflection of the shape below.

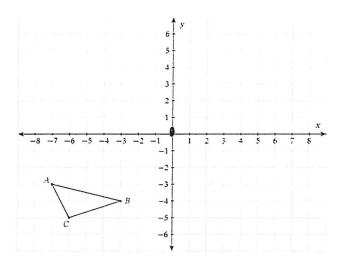


$$\beta(4.5)$$
 $\beta'(5.4)$
 $(X,Y) \rightarrow (Y \times X)$
 $A(1.5)$ $A'(5.1)$
 $C(2.5.7)$ $C'(7.2.5)$

Name:	Teacher:
Data:	

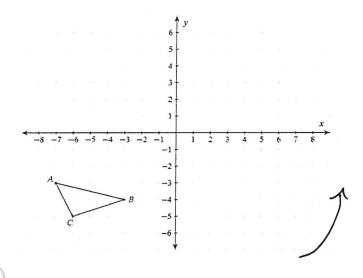
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Rotate the following shape 90 degrees clockwise around the origin, then write the new image coordinates.

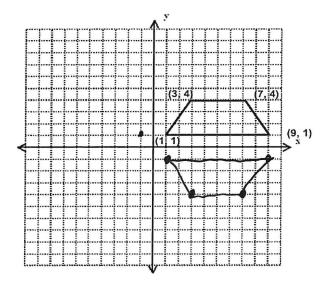


Lessons 12-21

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



- 6.) A'(,) B'(,) C'(,)
- 7.) Draw the reflection of the shape below across the X-axis and list the coordinates. (Y-charge)



$$(111) \rightarrow (11-1)$$

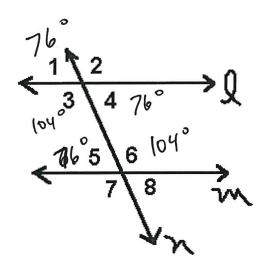
$$(3.4) \rightarrow (31-4)$$

$$(7.4) \rightarrow (7.-4)$$

$$(9.1) \rightarrow (9.-1)$$

Name:	Teacher:	
Detai		

Find the measure of each angle. List the reason you used to determine the angle measure. Given angle m<6 is 104 degrees.



8. m<1 = $\frac{76^{\circ}}{}$ Reason and angle you connected to = $\frac{20\%}{}$

9. m<5 = 76° Reason and angle you connected to = Supp to 46

10. m/ $\phi = 76^{\circ}$ Reason and angle you connected to = alf int 25 h 25 m11. m/8 = 26° Reason and angle you connected to = Supp to 26 h

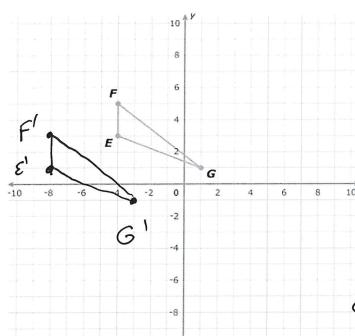
Date:_

Unit 2 – TEST 2 Review

Lessons 12-21

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.



-10

$$E'(-4-4, 3-2)$$
 $E'(-8, 1)$

$$E'(-8, ())$$
 $F'(-8, 3)$ $G'(-3, -1)$

$$F(-4-4,5-2)$$
 $(-8,3)$

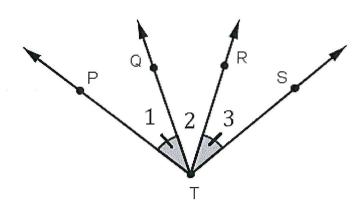
$$G(1-4,1-2)$$
 $(-3,-1)$

Name:	Teacher:	
D 4		

Lessons 12-21

13.) Complete the proof

Given> see visual Prove > <1 is congruent to angle 3



Statements

1) See Above

- 2) m < 1 + m < 2 =) m < 2 + < 3 = 1
- 3) m 4 = <3

Reasons

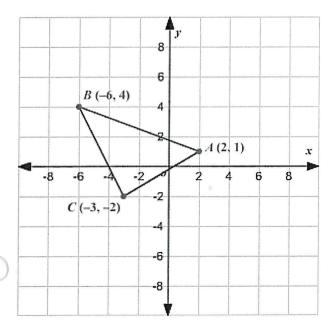
(1) Gim

- (2) Cow. L'S =
- (3) transitin pm.

Name:			
D			

Unit 2 – TEST 2 Review Lessons 12-21

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"(,)

Name:	
D	

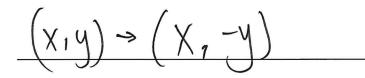
Unit 2 – TEST 2 Review

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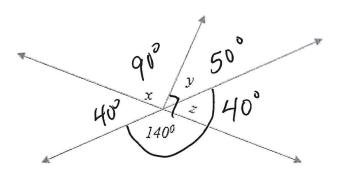
15.) What would the coordinates be for a reflection of these coordinates across the x-axis? A'(7, -13) B'(2, 5) B'(2, 5)



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



17.) Find the measure of the missing angles.

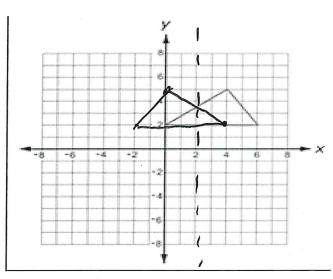


Date:

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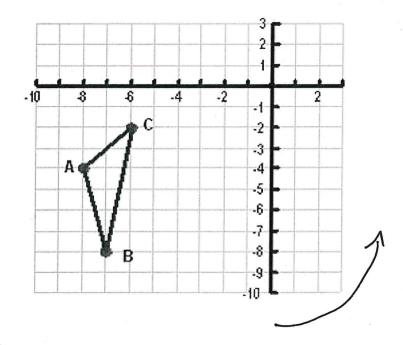
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18.) Reflect across x=2. Draw the new image.



torgh m! (0,2) = 7(4,2) (4,4) = 7(2,2) (6,2) = 7(2,2)

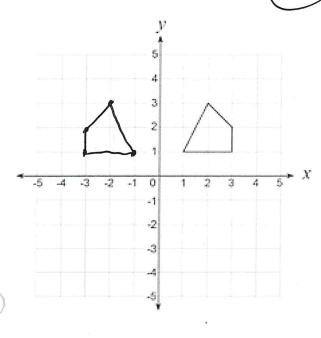
19.) Rotate around origin 45 degrees counterclockwise around the origin.



Lessons 12-21

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

X-chan



$$(1.11) \Rightarrow (-1.1)$$

$$(3.1) \Rightarrow (-3.1)$$

$$(3.2) \Rightarrow (-3.2)$$

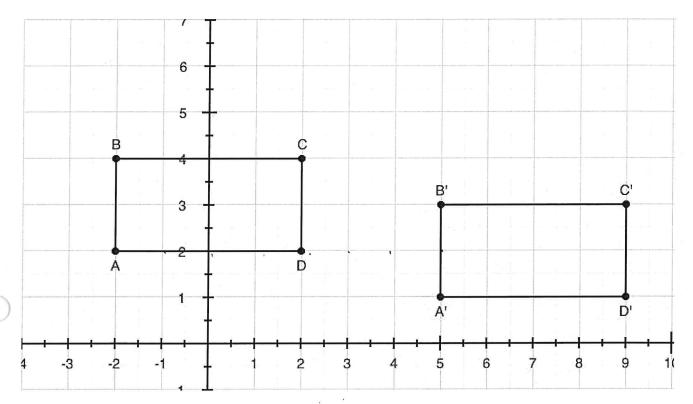
$$(2.3) (-2.3)$$

Marra		
Name:		
D - /		

Unit 2 – TEST 2 Review

Lessons 12-21

21.) Write the translation as the following: $(x,y)\rightarrow (x+7,y-1)$). Then write all the coordinates for each graph.



$$A(-2,2)$$