

geometry PRACTICE



COMPOSITIONS OF TRANSFORMATIONS

Name _____

TIC TAC TOE Begin with the center problem and choose two more to complete your tic tac toe.

✕ ○

TIC TAC TOE ✕ ○

<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(-3,2)$ $B(4,0)$ $C(1,4)$</p> <p>$A''(-5,0)$ $B''(-3,7)$ $C''(4,3)$</p>	<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(3,2)$ $B(4,0)$ $C(1,4)$</p> <p>$A''(-5,0)$ $B''(-3,7)$ $C''(4,3)$</p>
<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(0,3)$ $K(2,5)$ $L(4,7)$</p> <p>$J''(-3,0)$ $K''(5,2)$ $L''(7,4)$</p>	<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(0,3)$ $K(2,5)$ $L(4,7)$</p> <p>$J''(-3,0)$ $K''(5,2)$ $L''(7,4)$</p>
<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(0,3)$ $K(2,5)$ $L(4,7)$</p> <p>$J''(-3,0)$ $K''(5,2)$ $L''(7,4)$</p>	<p>Given the coordinates of the pre-image, find the coordinates of the image.</p> <p>$A(0,3)$ $K(2,5)$ $L(4,7)$</p> <p>$J''(-3,0)$ $K''(5,2)$ $L''(7,4)$</p>

TIC TAC TOE

TRANSLATIONS REFLECTIONS ROTATIONS

THIS OR THAT

THIS	THAT
<p>1. Translation is preserved in all transformations except:</p> <p>a. translations b. reflections c. rotations d. dilations</p>	<p>Side lengths are preserved in all transformations except:</p> <p>a. translations b. reflections c. rotations d. dilations</p>
<p>2. Given the coordinates of the pre-image and the translation, find the coordinates of the image.</p> <p>$A(4,5)$ $C(0,3)$ $D(-10,5)$ $E(2,9)$</p>	<p>Given the coordinates of $\triangle RST$ on SW $X'Y'Z'$, find the translation in coordinate and vector notation.</p> <p>$W(8,9)$ $X(1,7)$ $Y(6,0)$ $W'(3,4)$ $X'(4,2)$ $Y'(3,0)$</p>
<p>3. Given the coordinates of the pre-image and the reflection, find the coordinates of the image.</p> <p>reflect over $x = 3$</p> <p>$Q(2,3)$ $R(8,-7)$ $S(-3,0)$</p>	<p>Given the coordinates of $\triangle BCD$ - $\triangle B'C'D'$, find the reflection.</p> <p>$B(-1,-7)$ $C(4,8)$ $D(3,0)$ $B'(-7,-1)$ $C'(-8,4)$ $D'(0,-7)$</p>
<p>Given the coordinates of the pre-image and the rotation, find the coordinates of the image.</p> <p>rotate 270° about the origin</p> <p>$O(3,-8)$ $H(2,9)$ $I(-7,-4)$</p>	<p>Given the coordinates of $\triangle A'B'C'$, describe the rotation.</p> <p>$N(0,-6)$ $O(5,-5)$ $P(-1,1)$ $N'(-6,0)$ $O'(-5,5)$ $P'(-1,1)$</p>

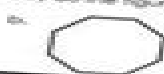
SYMMETRY

ADD IT UP

Choose the problems you want to solve to earn your 12 points.

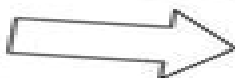
2 POINTS

How many lines of symmetry do the figures have?



Does the figure have rotational symmetry? If so, give the order.

4 POINTS



Does the figure have reflectional symmetry? If so, draw the lines of symmetry.

Does the figure have rotational symmetry? If so, give the order and the magnitude.

a. Does the figure have reflectional symmetry? If so, draw the lines of symmetry.

b. Does the figure have rotational symmetry? If so, give the order and the magnitude.

CONGRUENT TRIANGLES

TIC TAC TOE

Begin with the center problem and choose two more to complete your tic tac toe.

✕ ○

TIC TAC TOE

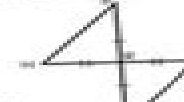


Are the triangles congruent? If so, tell how you know and complete the congruence statement.



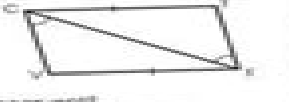
Congruent? _____
Shortcut: $\triangle ABC \cong \triangle DEF$

Are the triangles congruent? If so, tell how you know and complete the congruence statement.



Congruent? _____
Shortcut: $\triangle ABC \cong \triangle DEF$

Are the triangles congruent? If so, tell how you know and complete the congruence statement.



Congruent? _____
Shortcut: $\triangle ABC \cong \triangle DEF$

Are the triangles congruent? If so, tell how you know and complete the congruence statement.



Use the back of this paper to prove the following:
Given: $\angle PQR \cong \angle RST$, $PQ \cong RS$
Prove: $\triangle PQR \cong \triangle RST$

Are the triangles congruent? If so, tell how you know and complete the congruence statement.



RIGID MOTION & CONGRUENCE

Test Patterns And Motion In Geometry

Jeffrey Papp



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slot antennas are usually used at uhf and microwave frequencies at which wavelengths are small enough that the plate and slot are conveniently small at these frequencies the radio waves are often conducted by a waveguide and the antenna consists of slots in the waveguide this is called a slotted waveguide antenna

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a slotted waveguide antenna array is designed and simulated using hfss for a frequency of 10 5ghz the simulated design of slotted waveguide antenna array offers a return loss of 32 685db and a vswr of 1 016 the antenna exhibits a gain of 15 378db and a peak gain of 35 245db it is horizontally polarized with a bandwidth percentage of 9

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