Geometry Homework

## Congruent Parts Do Work on Sheet

I)	$\Delta RST \equiv \Delta XYZ$ . Compl	lete each statement.			
	$\overline{\mathbf{ST}}\cong$	<t 23<="" th=""><th>XZ ≅</th><th><math>\Delta TRS \equiv</math></th><th></th></t>	XZ ≅	$\Delta TRS \equiv$	
2)	$\triangle ADB \cong \triangle BCA$ . Com	plete each statement.			
	a) BD 🖾	DC			
	b) ∆ABD≘				
	c) AD ≡	A	3		
	d) ΔDAB≅				
3)	Given: $\triangle ABC \cong \triangle EFC$	Э.			
	Find the measure of:		B	G	
	a) <e< th=""><th></th><th>A 44°</th><th></th><th></th></e<>		A 44°		
	b) <8				
	c) <c< th=""><th></th><th></th><th></th><th></th></c<>				
4)	$\Delta GHI \equiv \Delta LMN$ . Which	is <b>not</b> a congruence state	ment for these t	riangles?	
	l) ΔHGI ≅ ΔMLN	2) $\Delta$ HIG $\equiv \Delta$ MNL	3) $\Delta IHG \equiv \Delta I$	MNL 4) $\Delta OIH \cong \Delta I$	.NM
5)	Two squares are congrue	ent if and only if:			
	<ol> <li>any two correspondir</li> </ol>	ig angles are congruent	3) two pairs o	f corresponding angles a	e congruent
	2) all four pairs of angle	es are congruent	4) a side of on	e is congruent to a side c	f another.
6)	coordinates of ∆A"B"C", t	), B(5, 1), and C(-1, 3), grap he image of ∆ABC after r <sub>x-a</sub> mation will map ∆ABC dire	<sub>sis</sub> followed by		
	Continue with the	work on the back			

- 5) What is the image of P(-4, 6) under the composition r<sub>y-axis</sub> followed by a reflection over a vertical line through the x-axis at 2?
  1) (-8, 6)
  2) (4, -2)
  - 3) (6,0) 4) (0,6)
- Find the coordinates of A' after r<sub>y-axis</sub> followed by r<sub>y-x</sub> if the coordinates of A are (6, 1).
- 7) What are the coordinates of P', the image of point P(2, 3) under the transformation r<sub>x-axis</sub> followed by a reflection in the horizontal line through the y-axis at 4?

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8) If A = (-2, 3), what is A' after the transformation D<sub>3</sub> followed by  $r_{y-axis}$ ?

1) (-6, -9)	2)	(9, -6)

3) (5, 6) 4) (6, 9)





10) Multiply:  $(4.8 \times 10^{-1})(5.3 \times 10^{7})$ . Write your answer in scientific notation.

11) Divide: 
$$(42a^5b^6c^4) \div (-7a^2bc^4)$$

12) Multiply:  $(3x^{-2}y^4)(6xy^3)^{-3}$