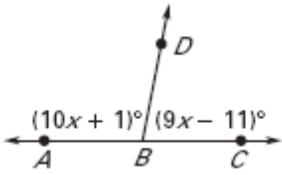


Name: \_\_\_\_\_ Date: \_\_\_\_\_

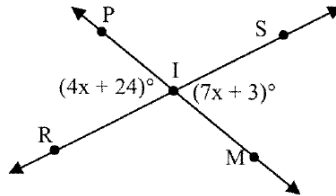
**Unit 1 Test Review**

**Solve for the given variable:**

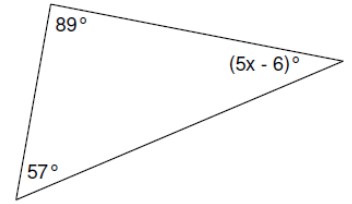
1)



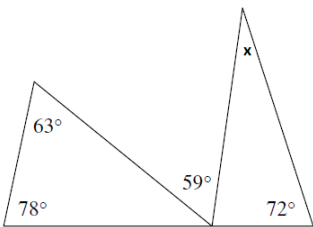
2)



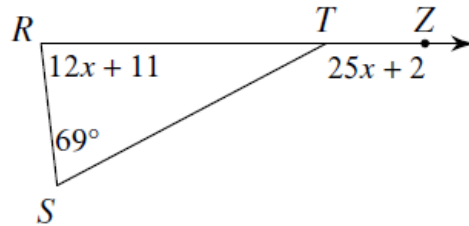
3)



4)



5)

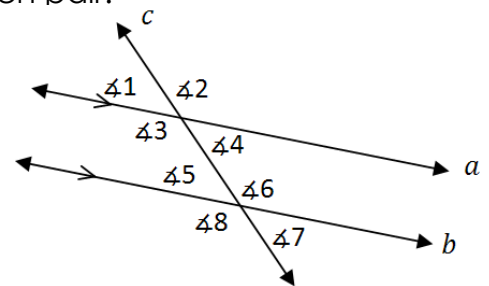


9) The measure of one angle is 38 less than the measure of its supplement.  
Find the measure of each angle.

**Parallel Lines:**

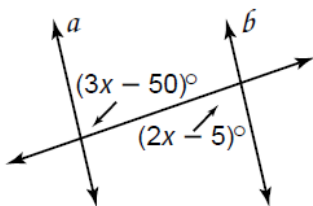
10) Name the angles listed and the special property of each pair.

- a)  $\angle 1$  and  $\angle 5$  \_\_\_\_\_
- b)  $\angle 4$  and  $\angle 6$  \_\_\_\_\_
- c)  $\angle 2$  and  $\angle 8$  \_\_\_\_\_
- d)  $\angle 4$  and  $\angle 5$  \_\_\_\_\_

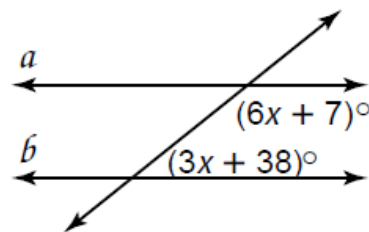


11) Solve for x.

a)

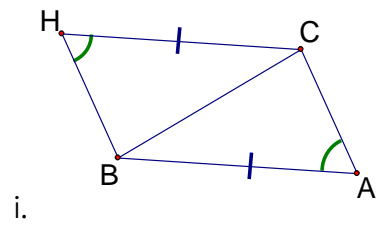
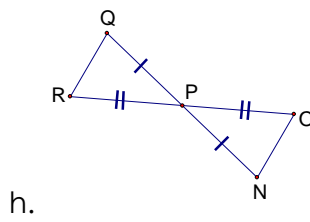
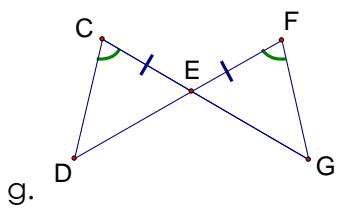
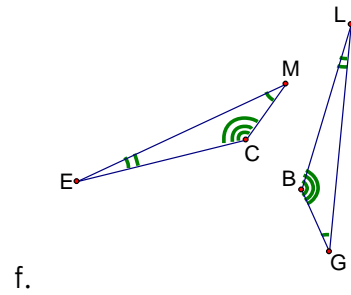
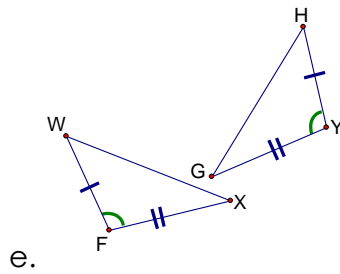
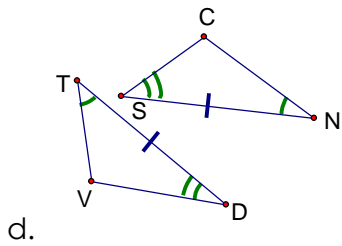
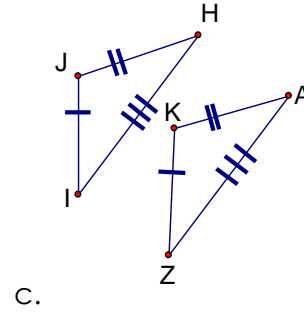
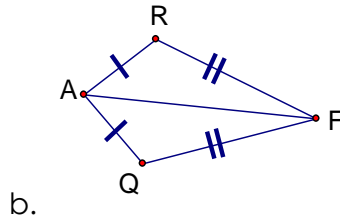
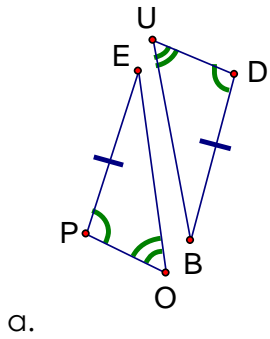


b)



12) Congruent Triangles:

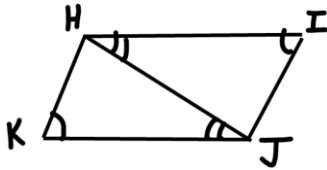
State whether each pair of triangles is congruent by *SSS*, *SAS*, *ASA*, *AAS*, or *HL*; if none of these methods work, write "none". If congruent, make a congruence statement for the triangles.



13) Complete the following proof:

Given:  $\angle I \cong \angle K$  ;  $\angle IHJ \cong \angle KJH$

Prove:  $\triangle HJK \cong \triangle JHI$



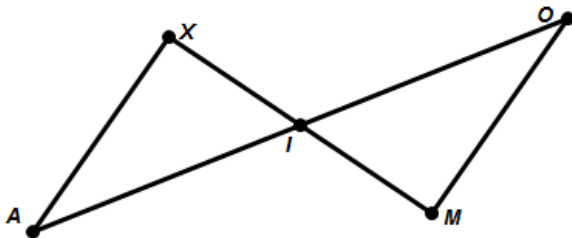
Statement	Reason
1. $\angle I \cong \angle K$	1.
2. $\angle IHJ \cong \angle KJH$	2.
3.	3.
4. $\triangle HJK \cong \triangle JHI$	4.

Fill in the missing statements or reasons:

14) Given: Point I is the midpoint of  $\overline{XM}$

Point I is the midpoint of  $\overline{AO}$

Prove:  $\triangle AXI \cong \triangle OMI$



Statements	Reasons
1. I is the midpoint of $\overline{XM}$	
2.	Definition of Midpoint
3. I is the midpoint of $\overline{AO}$	
4.	
5. $\triangle AXI \cong \triangle OMI$	
6. $\triangle AXI \cong \triangle OMI$	

Transformations Section:

What you need to know & be able to do	Things to remember	Problem	Problem
Translations	<ul style="list-style-type: none"> <li>Find the new coordinates by adding/ subtracting the given value.</li> <li>Find the pre-image by doing the OPPOSITE.</li> </ul>	<p>1. Translate the following points by the rule: <math>(x,y) \rightarrow (x+1,y-4)</math></p> <p>S (-5, 2) <math>\rightarrow</math></p> <p>Y (-4, 5) <math>\rightarrow</math></p> <p>R (-1, 1) <math>\rightarrow</math></p> <p>A (-4, -2) <math>\rightarrow</math></p>	<p>2. Translation: <math>(x, y) \rightarrow (x - 2, y - 6)</math></p> <p><b>W(3, 2) C(2, 4), T(3, 5) Z(5,2)</b></p>

