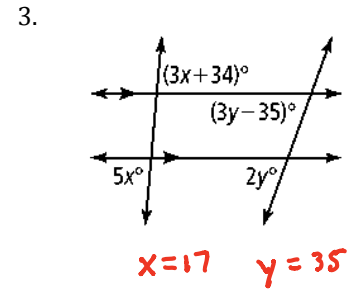
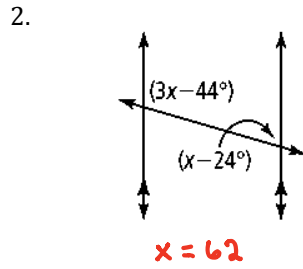
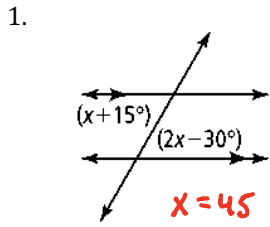


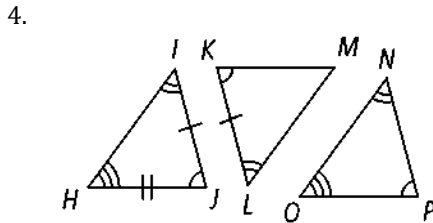
Math 3
Unit 6 Test Review (1)

Name: Key
Date: _____

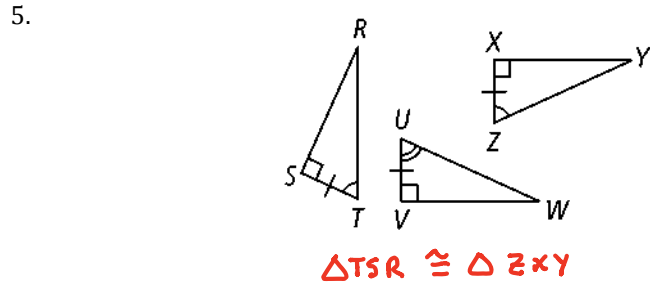
Directions: Find the value of each variable. Then find the measure of each labeled angle.



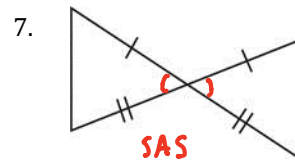
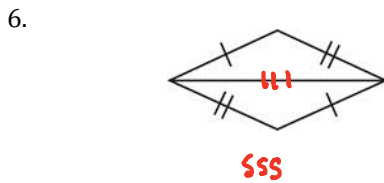
Directions: Name two triangles that are congruent by ASA.



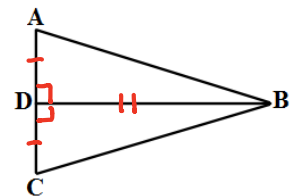
$\triangle KLM \cong \triangle JIH$



Directions: Would you use SSS or SAS to prove these triangles congruent? If there is not enough information to prove the triangles congruent by SSS or SAS, write *not enough information*. Explain your answer.

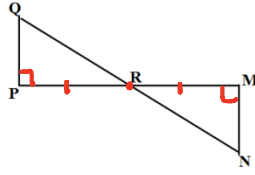


8. Given: \overline{BD} is the perpendicular bisector of \overline{AC}
Prove: $\triangle BAD \cong \triangle BCD$



Statements	Reasons
1) \overline{BD} is the perpendicular bisector of \overline{AC} .	1) Given
2) $\overline{AD} \cong \overline{CD}$	2) Definition of segment bisector
3) $\angle ADB$ and $\angle CDB$ are right \sphericalangle .	3) Definition of perpendicular
4) $\angle ADB \cong \angle CDB$	4) Defn. of Right \sphericalangle 's
5) $\overline{DB} \cong \overline{DB}$	5) Reflexive Prop.
6) $\triangle BAD \cong \triangle BCD$	6) SAS

- 9 Given: $\angle P$ and $\angle M$ are right angles.
 R is the midpoint of \overline{PM} .
 Prove: $\triangle PQR \cong \triangle MNR$

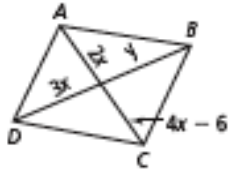


- 1). $\angle P$ & $\angle M$ are Right \angle 's
 R is the midpoint of \overline{PM}
- 2). $\angle P \cong \angle M$
- 3). $\overline{PR} \cong \overline{RM}$
- 4). $\angle QRP \cong \angle MRN$
- 5). $\triangle PQR \cong \triangle MNR$

Given
 Defn. of Right \angle 's
 Defn. of Midpoint
 vertical \angle 's
 ASA

Directions: Find the values of the variables in each parallelogram (14 is a trapezoid)..

10.



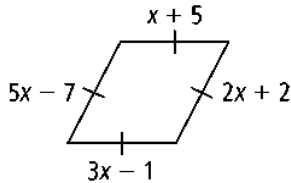
$x=3$ $y=9$

11.



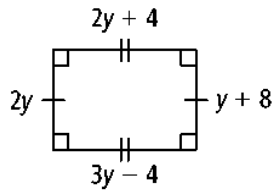
$m=5$ $n=6$

12.



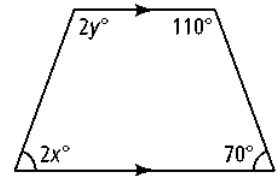
$x=1$

13.



$y=8$

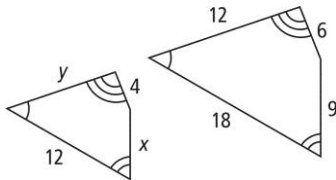
14.



$x=55$ $y=35$

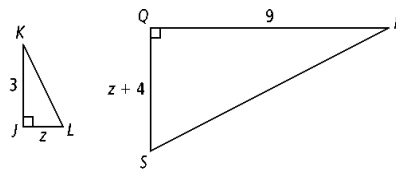
Directions: The polygons are similar. Find the value of each variable.

15.



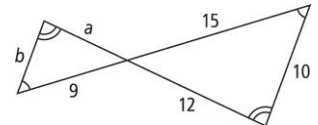
$x=6$ $y=8$

16.



$z=2$

17.



$a=7.2$ $b=6$