

SHOW ALL WORK FOR FULL CREDIT!!! INCLUDE ALL LABELS WHERE NEEDED!!!

Geometry – EXAM REVIEW  
(UNIT 6: Triangle Congruence)

Name Ray hr     

B 1. If  $\triangle GXA \cong \triangle MYR$ , a pair of corresponding sides is

a.  $\overline{GX}$  and  $\overline{RY}$

b.  $\overline{GA}$  and  $\overline{MR}$

c.  $\overline{AG}$  and  $\overline{YM}$

d. none of the above



C 2. Which of the following methods **cannot** be used to prove triangles congruent?

a. HL

b. AAS

c. AAA

d. SSS

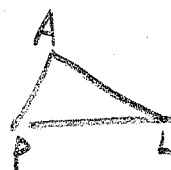
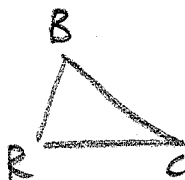
C 3.  $\triangle BRC \cong \triangle APL$ , has the same correspondence as

a.  $\triangle CRB \cong \triangle ALP$

b.  $\triangle RCB \cong \triangle ALP$

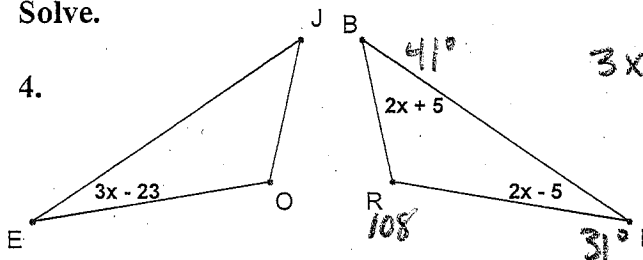
c.  $\triangle BCR \cong \triangle APL$

d. none of the above



Solve.

4.



$$3x - 23 = 2x - 5$$

$$x - 23 = -5$$

$$x = 18$$

$$\triangle EOJ \cong \triangle IRB$$

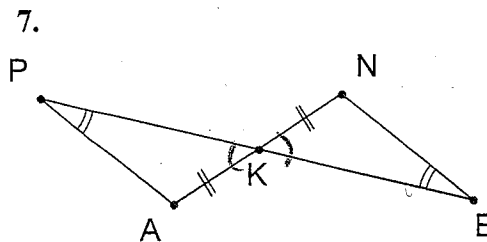
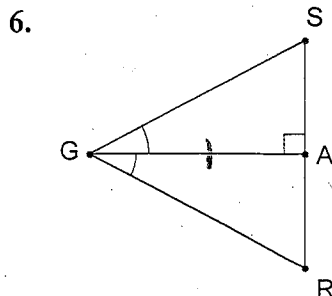
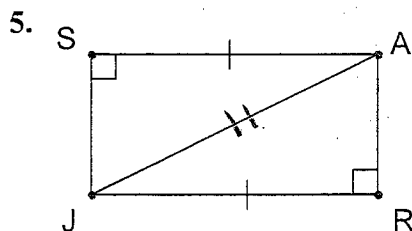
$$x = 18$$

$$m\angle R = 108^\circ$$

For each question below:

a) State which triangle congruence method, if any, can be used to prove the triangles are congruent. If none, write *none*.

b) IF the triangles are congruent, complete the congruence statement.



$$\triangle AJS \cong \triangle ARJ \text{ by } \underline{HL}$$

$$\triangle AGR \cong \triangle AGS \text{ by } \underline{ASA}$$

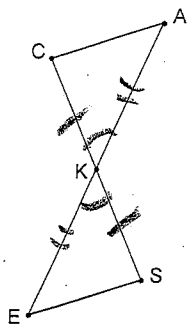
$$\triangle PKA \cong \triangle ENK \text{ by } \underline{AAS}$$

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Complete the proofs.

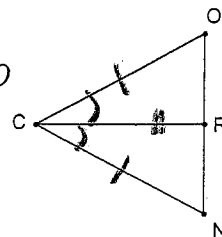
8. Given:  $\overline{CK} \cong \overline{SK}$   
 $\overline{KA} \cong \overline{KE}$

Prove:  $\triangle CKA \cong \triangle SKE$



9. Given:  $\overline{CO} \cong \overline{CN}$   
 $\overline{CR}$  bisects  $\angle NCO$

Prove:  $\triangle COR \cong \triangle CNR$



Statements	Reasons
S ① $\overline{CK} \cong \overline{SK}$	① Given
S ② $\overline{KA} \cong \overline{KE}$	② Given
A ③ $\angle CKA \cong \angle SKE$	③ Vert $\angle$ Thm
④ $\triangle CKA \cong \triangle SKE$	④ SAS

Statements	Reasons
S ① $\overline{CO} \cong \overline{CN}$	① Given
② $\overline{CR}$ bisects $\angle NCO$	② Given
A ③ $\angle OCR \cong \angle NCR$	③ Defn of bisector
S ④ $\overline{CR} \cong \overline{CR}$	④ Reflexive
⑤ $\triangle COR \cong \triangle CNR$	⑤ SAS