

Name: key

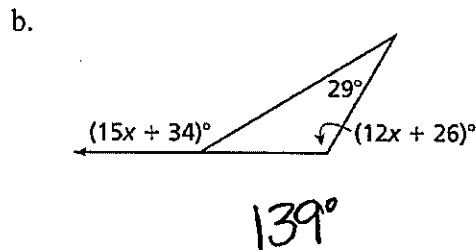
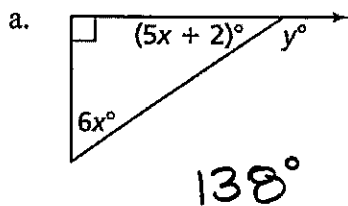
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HW #4H-5: Quiz Review

Check Answers on Edline!

1. Find the measure of the exterior angle.

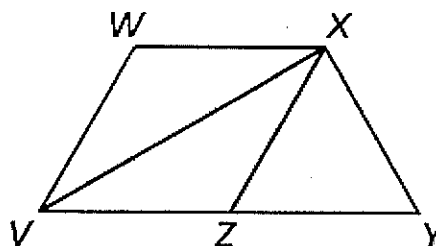


2. Given $\triangle JKL \cong \triangle DEF$, identify the congruent corresponding parts.

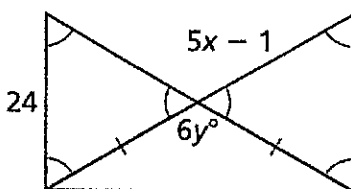
a. $\overline{KL} \cong \underline{\overline{EF}}$ b. $\overline{DF} \cong \underline{\overline{JL}}$ c. $\angle K \cong \underline{\angle E}$ d. $\angle F \cong \underline{\angle L}$

3. Complete the statement. Use the diagram.

- a. If $\overline{VW} \cong \overline{WX}$, then $\angle \underline{WVX} \cong \angle \underline{WXV}$
 b. If $\overline{XZ} \cong \overline{ZY}$, then $\angle \underline{XZY} \cong \angle \underline{XYZ}$
 c. If $\angle ZVX \cong \angle ZXY$, then $\underline{\overline{VZ}} \cong \underline{\overline{XZ}}$
 d. If $\angle XYZ \cong \angle ZXY$, then $\underline{\overline{ZX}} \cong \underline{\overline{ZY}}$



4. Find the values of x and y.



$x = 5$
 $y = 20$

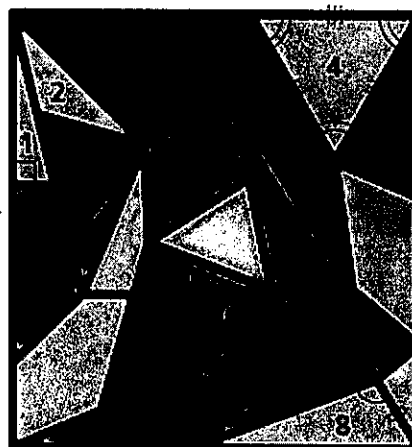
5. The figure shows a stained glass window.

- a. Classify triangles 1 - 4 by their angles

$\triangle 1$: right $\triangle$ $\triangle 2$: obtuse $\triangle$
 $\triangle 3$: acute $\triangle$ $\triangle 4$: equiangular $\triangle$

- b. Classify triangles 4-6 by their angles

$\triangle 4$: equilateral $\triangle$ $\triangle 5$: scalene $\triangle$
 $\triangle 6$: isosceles $\triangle$



- c. If there enough information to prove that $\Delta 7 \cong \Delta 8$? If so, explain. If not, determine what additional information is needed.

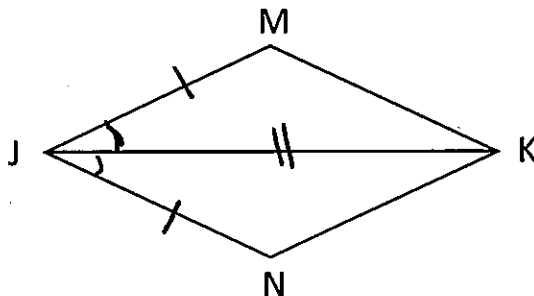
yes! by SAS $\cong$

6. Write a two-column proof.

Given: $\overline{JK}$ bisects $\angle MJN$

$\overline{MJ} \cong \overline{NJ}$

Prove: $\Delta MJK \cong \Delta NJK$



Statements	Reasons
① $\overline{JK}$ bisects $\angle MJN$	① Given
② $\angle MJK \cong \angle NJK$	② if $\angle$ bisector $\rightarrow \cong \angle$'s
③ $\overline{MJ} \cong \overline{NJ}$	③ Given
④ $\overline{JK} \cong \overline{JK}$	④ reflex. prop. $\cong$
⑤ $\Delta MJK \cong \Delta NJK$	⑤ SAS $\cong$ (3, 2, 4)