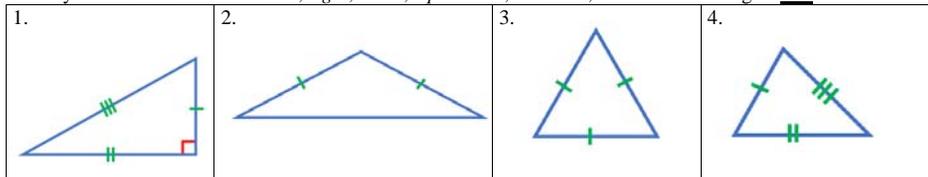
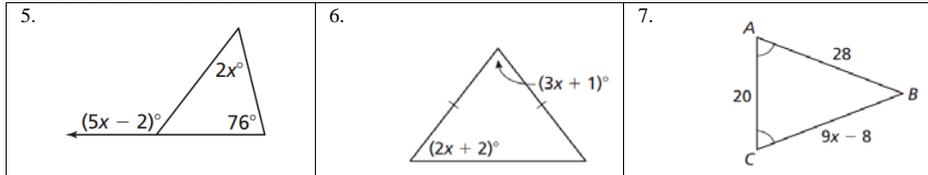


Classify each. Choose from: *obtuse, right, acute, equilateral, isosceles, scalene*. Each \triangle gets **two** words.



Find the value of each variable.

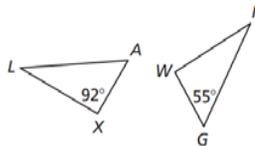


Congruent Triangles:

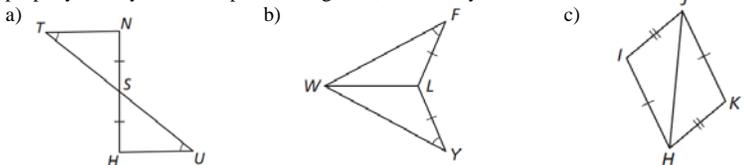
8. Fill in the blanks, given that: $\triangle ALX \cong \triangle GIW$

$\overline{LX} \cong \underline{\hspace{1cm}}$ $\angle I \cong \underline{\hspace{1cm}}$ $m\angle W = \underline{\hspace{1cm}}^\circ$

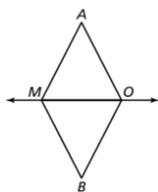
$\triangle LAX \cong \triangle \underline{\hspace{1cm}}$



9. Mark any sides congruent by the **Reflexive Property of Congruence**. Mark any angles congruent by the **Vertical Angle Theorem**. State whether these pairs of triangles must be congruent and if so by which property. If they cannot be proven congruent, state how you know.

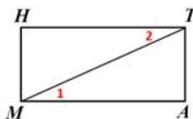


10. **Given:** \overline{OM} bisects $\angle AOB$;
 \overline{MO} bisects $\angle AMB$;
Prove: $\triangle AMO \cong \triangle BMO$



Complete proof in
your notebook.

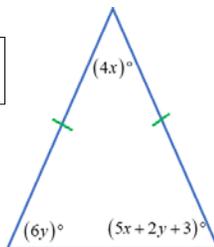
11. **Given:** $\angle H$ and $\angle A$ are right angles;
 $\overline{HM} \cong \overline{TA}$;
Prove: $\overline{HT} \parallel \overline{MA}$



Complete proof in
your notebook.

12. Write and solve a system to find the value of x and y .

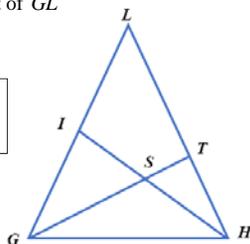
Do work in your
notebook.



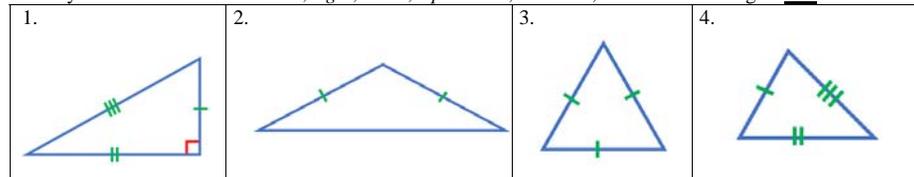
13. Mark the diagram with the given information:

- a) $\overline{GT} \perp \overline{HL}$
b) I is the midpoint of \overline{GL}
c) $\angle ISG \cong \angle TSH$

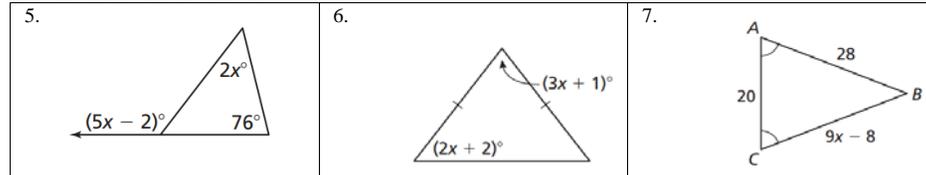
You don't have to
prove anything, just
mark the figure.



Classify each. Choose from: *obtuse, right, acute, equilateral, isosceles, scalene*. Each \triangle gets **two** words.



Find the value of each variable.

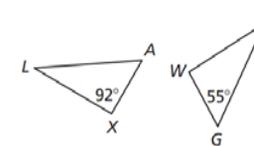


Congruent Triangles:

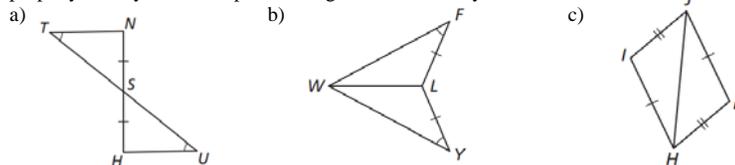
8. Fill in the blanks, given that: $\triangle ALX \cong \triangle GIW$

$\overline{LX} \cong \underline{\hspace{1cm}}$ $\angle I \cong \underline{\hspace{1cm}}$ $m\angle W = \underline{\hspace{1cm}}^\circ$

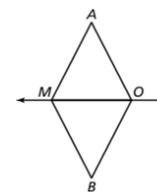
$\triangle LAX \cong \triangle \underline{\hspace{1cm}}$



9. Mark any sides congruent by the **Reflexive Property of Congruence**. Mark any angles congruent by the **Vertical Angle Theorem**. State whether these pairs of triangles must be congruent and if so by which property. If they cannot be proven congruent, state how you know.

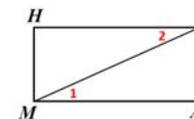


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Complete proof in
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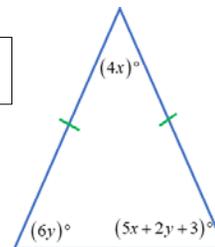
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Complete proof in
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Do work in your
notebook.



13. Mark the diagram with the given information:

- d) $\overline{GT} \perp \overline{HL}$
e) I is the midpoint of \overline{GL}
f) $\angle ISG \cong \angle TSH$

You don't have to
prove anything, just
mark the figure.

