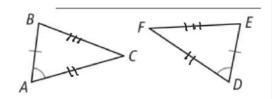
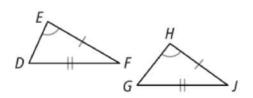
B. What additional information is needed to show $\triangle ABC \cong \triangle DEF$ by SAS? By SSS?



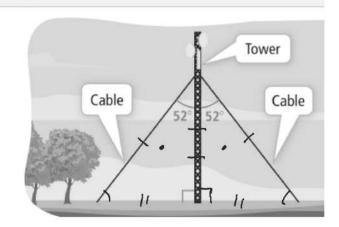
Try It!

4. b. Is any additional information needed to show $\triangle DEF \cong \triangle GHJ$ by SAS? Explain.

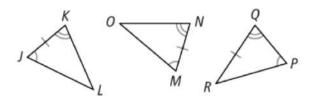


A technician installs cables from a cell phone tower to the ground. To pass inspection, both cables must be the same length. Does this installation meet the cable-length requirement? Explain.

SOLUTION

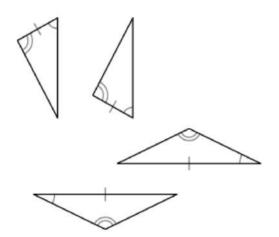


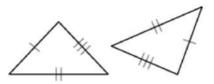
3. a. Are $\triangle JKL$ and $\triangle MNO$ congruent? Explain.

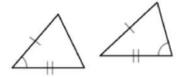


b. Are $\triangle JKL$ and $\triangle PQR$ congruent? Explain.

A. State whether each pair of triangles is congruent by SAS, SSS, ASA, or AAS, or if the congruence cannot be determined.

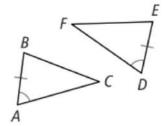






5. a. What additional information is needed to show $\triangle ABC \cong \triangle DEF$ by ASA?

Enter your answ∠ B=LE



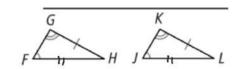
CHECK ANSWER

b. What additional information is needed to show $\triangle ABC \cong \triangle DEF$ by AAS? $\angle C \cong \angle F$

Corresponding Parts of Congruent Triangles arz Congruent

B. Prove that $\overline{FH}\cong \overline{JL}$.

Given: $\overline{GH} \cong \overline{KL}$, $\angle GFH \cong \angle KJL$, and $\angle FGH \cong \angle JKL$



Prove: $\overline{FH} \cong \overline{JL}$

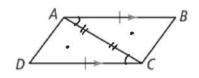
Statement	Recson
1) GFI = KL,	1) Given
TREH ZKK2L	
TEGH = TIKE	2) AAS
a) DFGH=DJKL	
3) FA = JL	3) CPCTCE

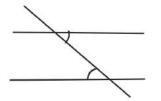
Try It!

ASK SAS SAS SSS

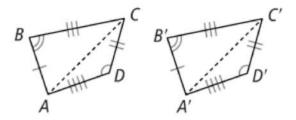
2. Given that $\overline{AB} \perp \hspace{-0.1cm} \perp \hspace{-0.1cm} \overline{CD}$ and $\overline{AB} \cong \overline{CD}$, how can you show that $\angle B \cong \angle D$?

Steatement	Reason
1) ABITCO	1) Given
ABZCO 2) ACZAC	2) Reflexing prop
3) LBAC = L DCA	3) Alternate Interior L'S
4) DBAC = DOCA	4) SAS
5)LBGLD	S) CPCTC





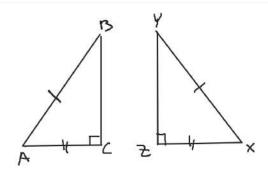
All sides and angles of ABCD are congruent to the corresponding sides and angles of A'B'C'D'. Is ABCD congruent to A'B'C'D'?



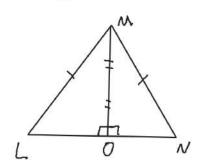
Hypotenuse Leg → H L

Right triangle

If hypotenuse are =
and corresponding les are =
then A's are ≥.



DABCE DXYZ



△LMO △ △NNO HL Examine each of the following pairs of triangles and their markings showing congruence of corresponding angles and sides. In each case, decide whether the information given by the markings ensures that the triangles are congruent. If the triangles are congruent, write a congruence relation showing the correspondence between vertices. Cite an appropriate congruence theorem to support your conclusion.

