

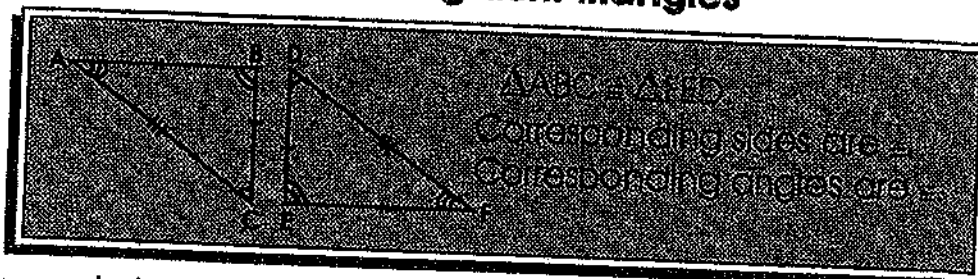
Congruent Triangles & Similar Triangles



Keep in mind...

You can make life exciting—learn something new today.

Parts of Congruent Triangles



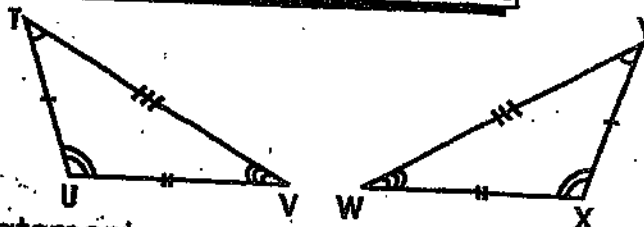
1. a. Which angle is congruent to:

$$\angle U \cong \underline{\hspace{1cm}} \quad \angle T \cong \underline{\hspace{1cm}} \quad \angle V \cong \underline{\hspace{1cm}}$$

- b. Which side is congruent to:

$$\overline{TU} \cong \underline{\hspace{1cm}} \quad \overline{TV} \cong \underline{\hspace{1cm}} \quad \overline{UV} \cong \underline{\hspace{1cm}}$$

- c. Write one correct congruence statement.



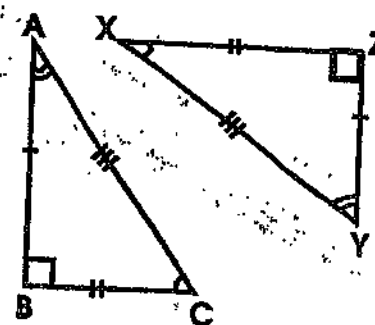
2. a. Which angle is congruent to:

$$\angle A \cong \underline{\hspace{1cm}} \quad \angle B \cong \underline{\hspace{1cm}} \quad \angle C \cong \underline{\hspace{1cm}}$$

- b. Which side is congruent to:

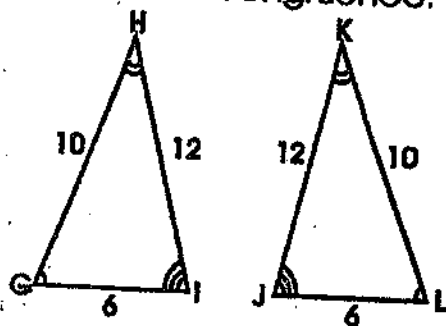
$$\overline{AB} \cong \underline{\hspace{1cm}} \quad \overline{BC} \cong \underline{\hspace{1cm}} \quad \overline{CA} \cong \underline{\hspace{1cm}}$$

- c. Write one correct congruence statement.



Complete each congruence:

3.



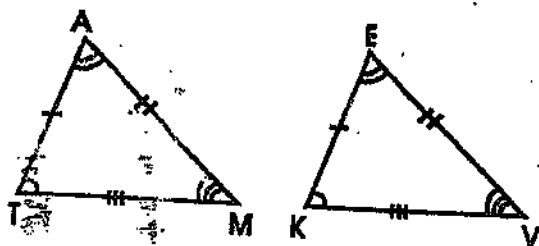
a. $\Delta HGI \cong \Delta \underline{\hspace{1cm}}$

b. $\Delta JKL \cong \Delta \underline{\hspace{1cm}}$

c. $\Delta IGH \cong \Delta \underline{\hspace{1cm}}$

d. $\Delta LJK \cong \Delta \underline{\hspace{1cm}}$

4.



a. $\Delta ATM \cong \Delta \underline{\hspace{1cm}}$

b. $\Delta TMA \cong \Delta \underline{\hspace{1cm}}$

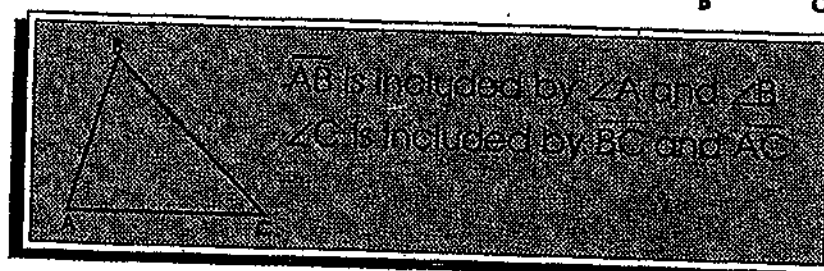
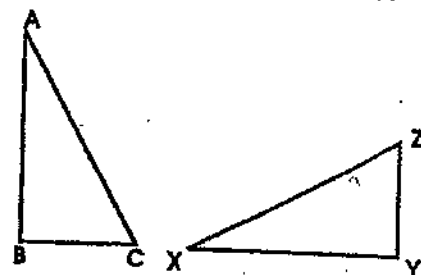
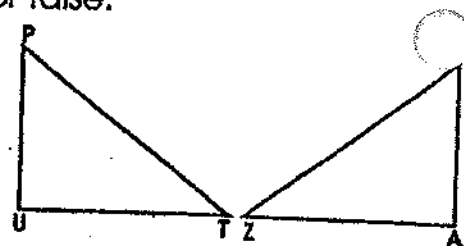
c. $\Delta MAT \cong \Delta \underline{\hspace{1cm}}$

d. $\Delta TAM \cong \Delta \underline{\hspace{1cm}}$

Congruent Triangles & Similar Triangles

State whether the following appear to be true or false.

5. a. $\triangle PUT \cong \triangle RAZ$ d. $\triangle TPU \cong \triangle RZA$
 b. $\triangle TUP \cong \triangle RZA$ e. $\triangle UPT \cong \triangle ARZ$
 c. $\triangle PTU \cong \triangle ARZ$ f. $\triangle TUP \cong \triangle ZAR$
6. a. $\triangle ABC \cong \triangle XYZ$ d. $\triangle ABC \cong \triangle ZYX$
 b. $\triangle ACB \cong \triangle YXZ$ e. $\triangle BCA \cong \triangle YXZ$
 c. $\triangle CAB \cong \triangle ZXY$ f. $\triangle BAC \cong \triangle YXZ$

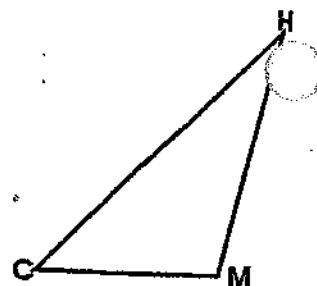


In $\triangle CMH$ name the angle included by each pair of sides.

7. \overline{CM} and \overline{HM} 8. \overline{CH} and \overline{MC} 9. \overline{CH} and \overline{HM}

In $\triangle CMH$ name the side included by each pair of angles.

10. $\angle C$ and $\angle M$ 11. $\angle H$ and $\angle C$ 12. $\angle M$ and $\angle H$

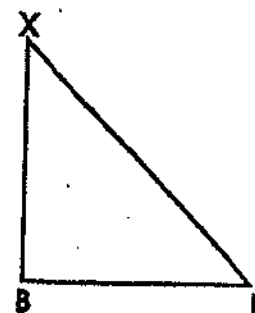


In $\triangle BFX$ name the angle included by each pair of sides.

13. \overline{BF} and \overline{XF} 14. \overline{BF} and \overline{BX} 15. \overline{FX} and \overline{XB}

In $\triangle BFX$ name the side included by each pair of angles.

16. $\angle B$ and $\angle F$ 17. $\angle B$ and $\angle X$ 18. $\angle X$ and $\angle F$



19. If $\triangle ABC \cong \triangle DEF$, name the three pairs of corresponding sides and the three pairs of corresponding angles.

20. If $\triangle ABC \cong \triangle XYZ$, name the three pairs of corresponding sides and the three pairs of corresponding angles.