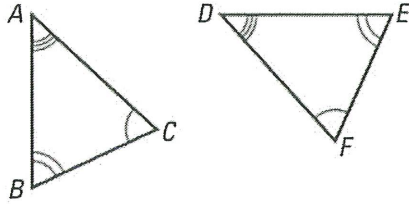


1.  $\triangle ABC \cong \triangle DEF$ .



Identify all pairs of congruent corresponding parts.

$$\begin{array}{l} \underline{\angle A \cong \angle D} \quad \underline{\overline{AB} \cong \overline{DE}} \\ \underline{\angle B \cong \angle E} \quad \underline{\overline{BC} \cong \overline{EF}} \\ \underline{\angle C \cong \angle F} \quad \underline{\overline{CA} \cong \overline{FD}} \end{array}$$

Write another valid congruence statement for the figure.

$$\underline{\triangle BCA \cong \triangle FED}$$

In the diagram,  $\triangle XYZ \cong \triangle MNL$ . Complete the statement.

2.  $m\angle Y = \underline{124^\circ}$

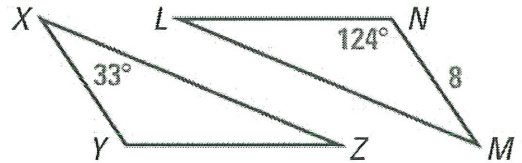
3.  $m\angle M = \underline{33^\circ}$

4.  $YX = \underline{8 \text{ units}}$

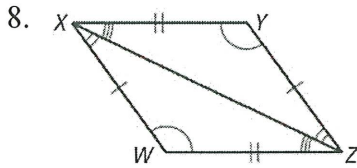
5.  $\overline{YZ} \cong \underline{\overline{NL}}$

6.  $\triangle LNM \cong \underline{\triangle ZYX}$

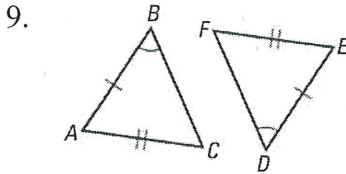
7.  $\triangle YXZ \cong \underline{\triangle NML}$



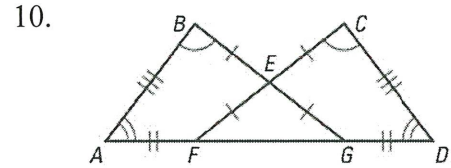
Write a congruence statement for any figures that can be proved congruent. **Explain your reasoning.**



$\triangle WXZ \cong \triangle YZX$

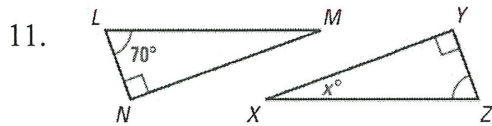


Not Enough Info.

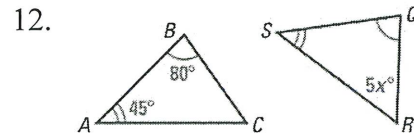


$\triangle BAG \cong \triangle CDF$

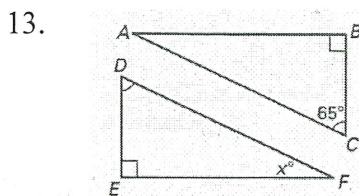
Find the value of x.



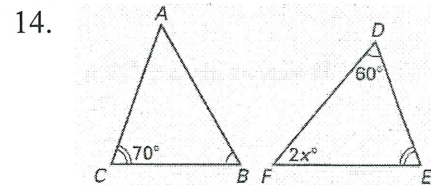
$x = 20^\circ$



$x = 11^\circ$



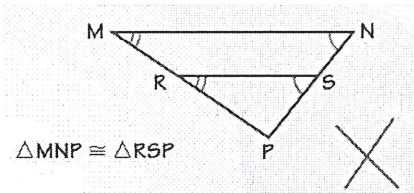
$x = 25^\circ$



$x = 25^\circ$

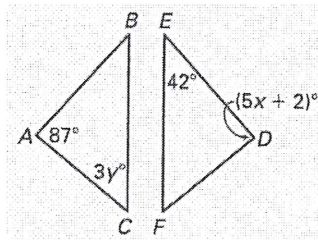
15. A student says that  $\triangle MNP \cong \triangle RSP$  because the corresponding angles of the triangles are congruent.

Describe the error in this statement.



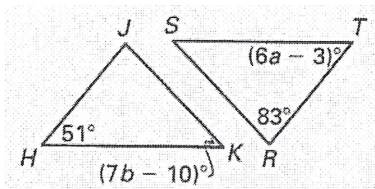
$\triangle MNP \not\cong \triangle RSP$ ; why?

16. Given:  $\triangle ABC \cong \triangle DEF$ , find the values of  $x$  and  $y$ .



$x = 17^\circ$ ;  $y = 17^\circ$

17. Given:  $\triangle HJK \cong \triangle TRS$ , find the values of  $a$  and  $b$ .

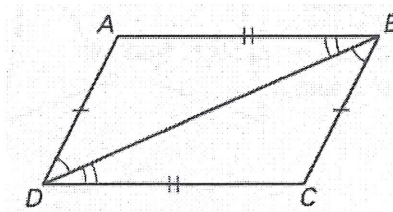


$a = 9^\circ$ ;  $b = 8^\circ$

18. Prove.

Given: Get information from diagram

Prove:  $\triangle ABD \cong \triangle CDB$



Statement	Reason
1. $\overline{AD} \cong \overline{CB}$ $\overline{AB} \cong \overline{CD}$	1. Given
1. $\angle CBD \cong \angle ADB$ $\angle ABD \cong \angle CDB$	2. Reflexive Property
2. $\overline{DB} \cong \overline{BD}$	3. Third Angles Th <sup>m</sup>
3. $\angle A \cong \angle C$	4. Def <sup>n</sup> of congruent triangles
4. $\triangle ABD \cong \triangle CDB$	