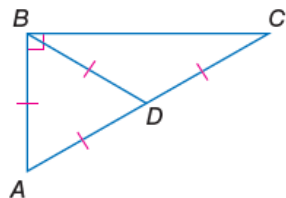


Geometry Chapter Tests

CHAPTER 4 Practice Test

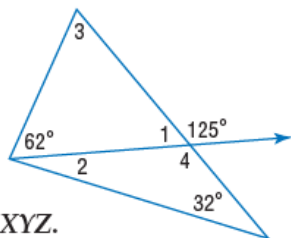
Classify each triangle as *acute*, *equiangular*, *obtuse*, or *right*.



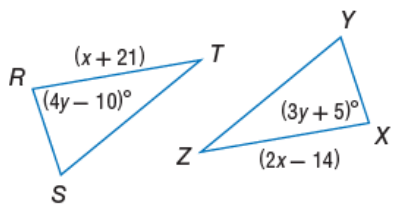
1. $\triangle ABD$ 2. $\triangle ABC$ 3. $\triangle BDC$

Find the measure of each numbered angle.

4. $\angle 1$ 5. $\angle 2$
6. $\angle 3$ 7. $\angle 4$



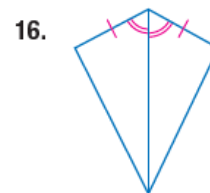
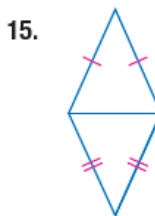
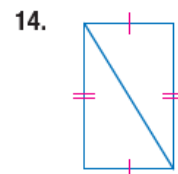
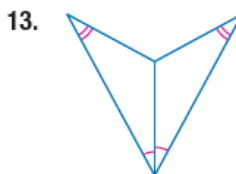
In the diagram, $\triangle RST \cong \triangle XYZ$.



8. Find x .
9. Find y .

12. Determine whether $\triangle TJD \cong \triangle SEK$ given $T(-4, -2)$, $J(0, 5)$, $D(1, -1)$, $S(-1, 3)$, $E(3, 10)$, and $K(4, 4)$. Explain.

Determine which postulate or theorem can be used to prove each pair of triangles congruent. If it is not possible to prove them congruent, write *not possible*.

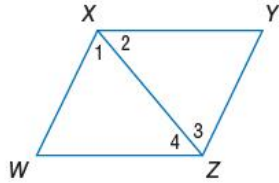


Geometry Chapter Tests

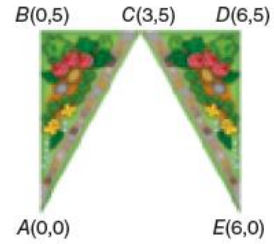
10. **PROOF** Write a flow proof.

Given: $\overline{XY} \parallel \overline{WZ}$ and $\overline{XW} \parallel \overline{YZ}$

Prove: $\triangle XWZ \cong \triangle ZYX$



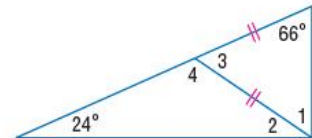
17. **LANDSCAPING** Angie has laid out a design for a garden consisting of two triangular areas as shown below. The points are $A(0, 0)$, $B(0, 5)$, $C(3, 5)$, $D(6, 5)$, and $E(6, 0)$. Name the type of congruence transformation for the preimage $\triangle ABC$ to $\triangle EDC$.



Find the measure of each numbered angle.

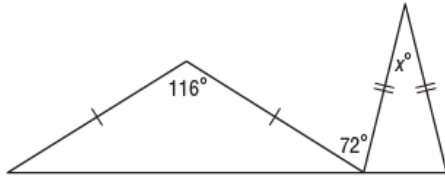
18. $\angle 1$

19. $\angle 2$



Geometry Chapter Tests

11. MULTIPLE CHOICE Find x .



- A 36 C 28
B 32 D 22

20. **PROOF** $\triangle ABC$ is a right isosceles triangle with hypotenuse \overline{AB} . M is the midpoint of \overline{AB} . Write a coordinate proof to show that \overline{CM} is perpendicular to \overline{AB} .



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