

Practice A

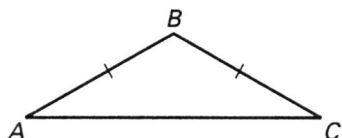
For use with pages 185–190

Complete the statement.

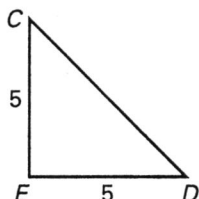
1. The congruent sides of an isosceles triangle are called ?.
2. The noncongruent side of an isosceles triangle is called the ?.
3. The two angles at the base of an isosceles triangle are called the ?.
4. If two sides of a triangle are congruent, then the angles opposite them are ?.
5. If two angles of a triangle are congruent, then the sides opposite them are ?.
6. If a triangle is equilateral, then it is ?.
7. If a triangle is equiangular, then it is ?.

Tell which sides and angles of the triangle are congruent.

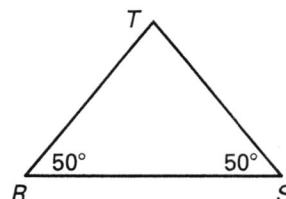
8.



9.

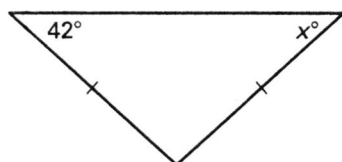


10.

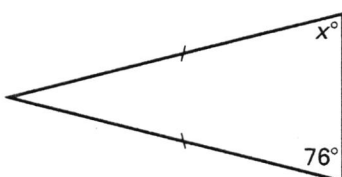


Find the value of x .

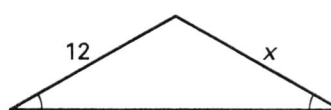
11.



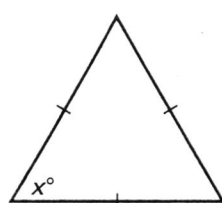
12.



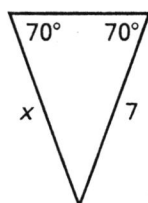
13.



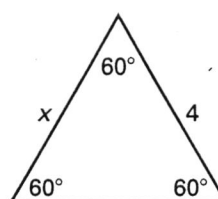
14.



15.

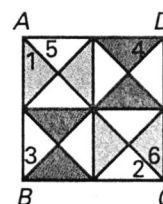


16.



In Exercises 17–19, use the diagram at the right which shows a baby quilt.

17. If $\overline{AB} \cong \overline{BC}$, name two angles of $\triangle ABC$ that are congruent.
18. If $\angle 3 \cong \angle 4$, name two sides of $\triangle ABD$ that are congruent.
19. If $\angle 5 \cong \angle 6$, name two sides of $\triangle ACD$ that are congruent.

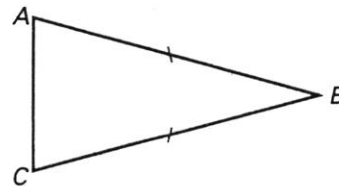


Practice B

For use with pages 185–190

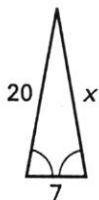
In Exercises 1–3, use the diagram at the right.

1. Identify the base of $\triangle ABC$.
2. Identify the base angles of $\triangle ABC$.
3. Identify the legs of $\triangle ABC$.

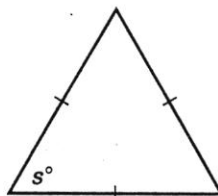


Find the value of the variable.

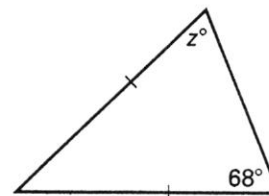
4.



5.



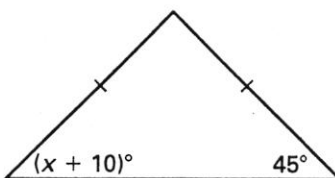
6.



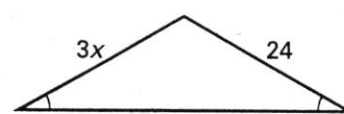
7.



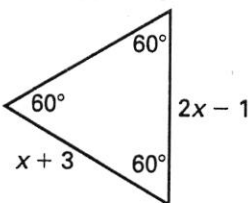
8.



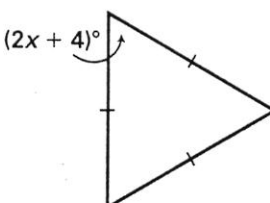
9.



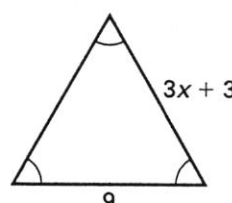
10.



11.

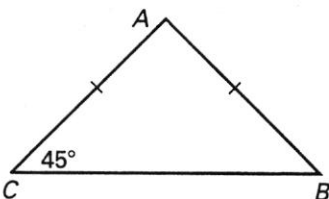


12.

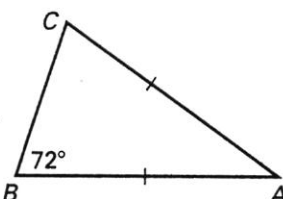


Find the measure of $\angle A$.

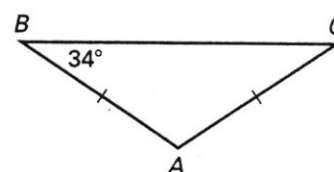
13.



14.



15.



16. Plot the points $P(5, -2)$, $Q(5, 2)$, and $R(1, 2)$ on a coordinate plane. What type of triangle is $\triangle PQR$? Explain your reasoning.