Tell whether a triangle formed with sides having the lengths named is acute, right, or obtuse. If a triangle can't be formed, write *not possible*.

9. 3, 4, 8
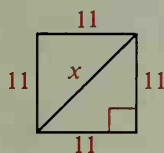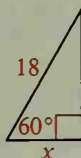
10. 11, 12, 13

11. 7, 7, 10

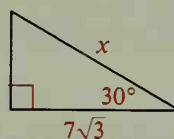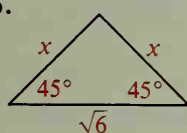**12.** $\frac{3}{5}, \frac{4}{5}, 1$

Find the value of *x*.
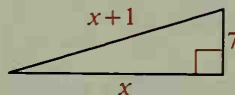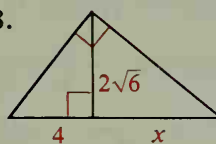
13.

14.

15.
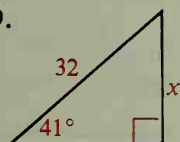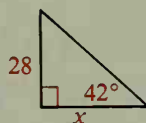

16.

17.

18.

Find lengths correct to the nearest integer and angles correct to the nearest degree.

19.

20.

21.
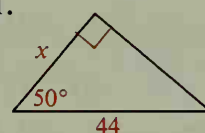
22.
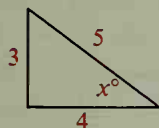
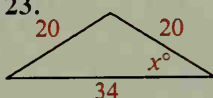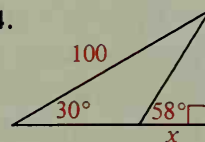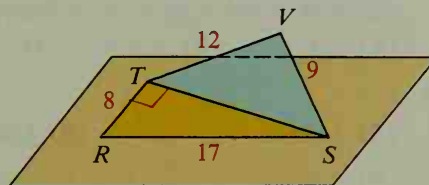**23.**

24.

25. The sides of a rhombus are 4 units long and one diagonal has length 4. How long is the other diagonal?

26. In the diagram, ∠*RTS* is a right angle; $\overline{RT}$, $\overline{RS}$, $\overline{VT}$ and $\overline{VS}$ have the lengths shown.
What is the measure of ∠*V*? Explain.

27. From the top of a lighthouse 18 m high, the angle of depression to sight a boat is 4°. What is the distance between the boat and the base of the lighthouse?