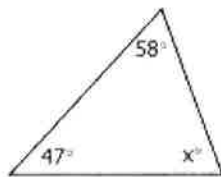


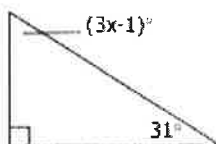
Write an equation to find the value of x . Then solve for x algebraically. Show your work in the box.
Write your final answer on the answer line.

6.



$$x = \underline{\hspace{2cm}}$$

7.



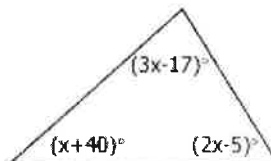
$$x = \underline{\hspace{2cm}}$$

8.



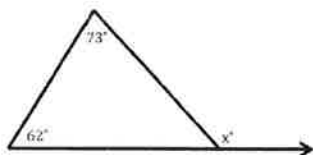
$$x = \underline{\hspace{2cm}}$$

9.



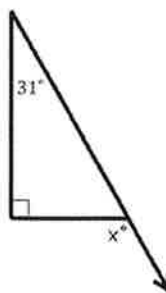
$$x = \underline{\hspace{2cm}}$$

10.



$$x = \underline{\hspace{2cm}}$$

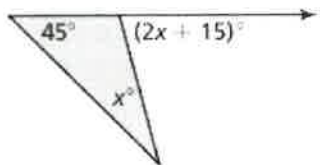
11.



$$x = \underline{\hspace{2cm}}$$

Find the value of x algebraically. Then find the measure of the exterior angle. Show your work in the box. Circle your answer.

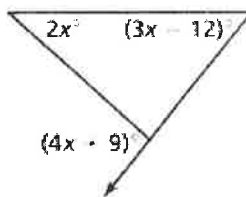
12.



$x =$ _____

exterior angle = _____

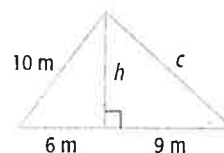
13.



$x =$ _____

exterior angle = _____

Use the figure at the right to answer the following questions:



14. Find the height, h , of the triangle.

15. Find the length of side c to the nearest meter.

15. An escalator is 32 feet tall and begins 40 feet from a wall. What distance does the escalator carry shoppers? Round your answer to the nearest foot. (Draw a diagram.)

Determine whether the following measures can represent the lengths of the sides of a right triangle. Write YES or NO. Then justify your answer.

16. 9 cm, 12 cm, 15 cm

17. 11ft, 8 ft, 14 ft