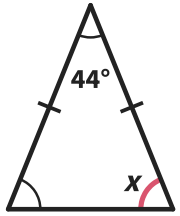
Angles in isosceles triangles

1

The triangle is isosceles. Find the size of angle x.



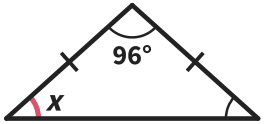
180° − 44° = ☐

☐ ÷ 2 = ☐

x = _____

2

The triangle is isosceles. Find the size of angle x.



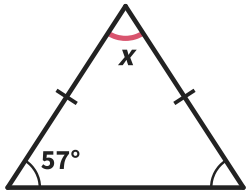
180° − ☐ = ☐

☐ ÷ 2 = ☐

x = _____

3

The triangle is isosceles. Find the size of angle x.



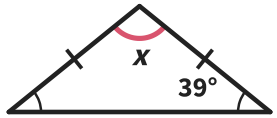
57° + 57° = ☐

180° − ☐ = ☐

x = _____

4

The triangle is isosceles. Find the size of angle x.



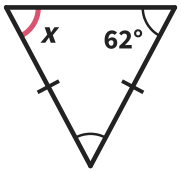
☐ + ☐ = ☐

180° − ☐ = ☐

x = _____

5 *Notice the change!*

The triangle is isosceles. Find the size of angle x. Give a reason.

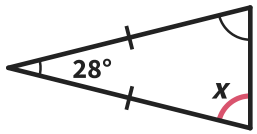


Reason: _____

x = _____

6

The triangle is isosceles. Find the size of angle x. Give your reasons.

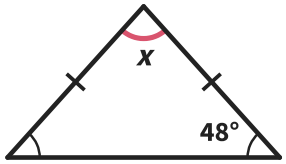


Reasons: _____

x = _____

7

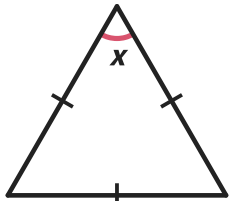
Leo says $x = 48°$ because two angles in an isosceles triangle are equal.
Explain why Leo is wrong, then find x.



x = _____

8

All three sides of this triangle are equal.
Find the size of angle x. Give a reason.



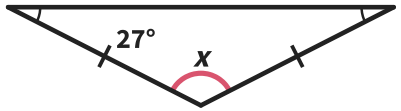
Reason: _____

x = _____

Angles in isosceles triangles *further practice*

9

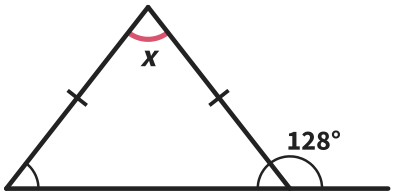
The triangle is isosceles. Find the size of angle x.



x = _____

10

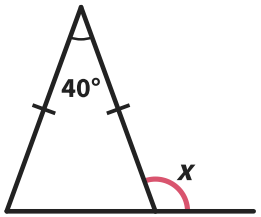
The triangle is isosceles. Find the size of angle x. Give a reason for each step.



x = _____

11

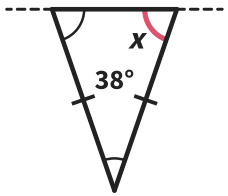
The triangle is isosceles. Find the size of angle x.



x = _____

12

A bunting flag is an isosceles triangle. The angle at its point is 38°.
Find the angle x at a top corner.



x = _____

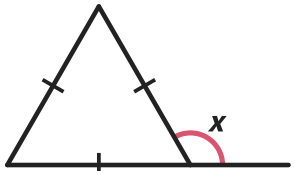
13

A triangle has angles of 35° and 75°. Kai says it is isosceles. Is Kai right? Show how you know.

Answer _____

14

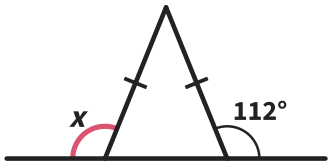
The triangle is equilateral.
Find the size of angle x.



x = _____

15

The triangle is isosceles. Find the size of angle x. Explain your answer.



x = _____

16

The top angle of an isosceles triangle is 30°. Zoe works out a base angle: 180° ÷ 2 = 90°, then 90° − 30° = 60°. Explain Zoe's mistake and find the base angle.

Base angle = _____