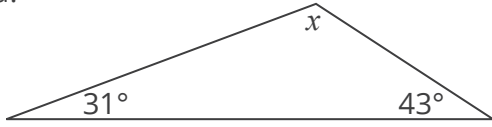


Angles in a Triangle Answers

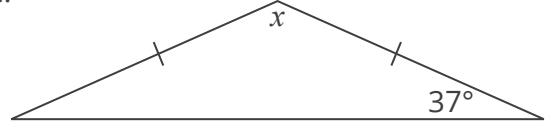
1. Find the missing angle marked x in each triangle.

a.



106°

c.



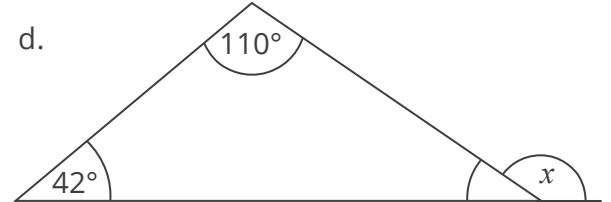
106°

b.



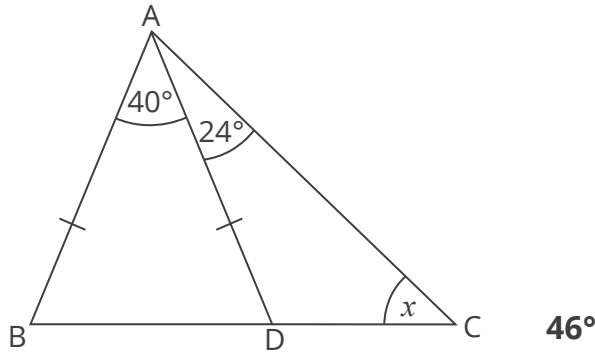
39°

d.



152°

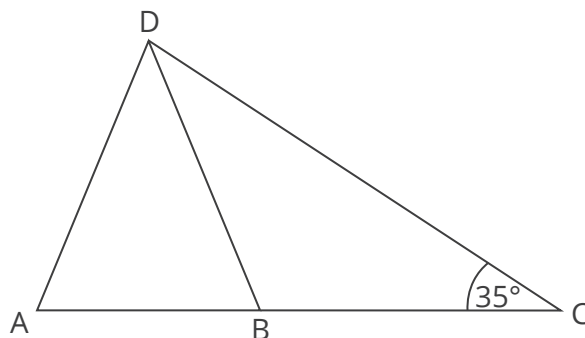
2. Find the size of the angle marked x .



46°

3. Triangles ABD and BCD are isosceles. Is triangle ACD an isosceles triangle?

Explain your answer mathematically.



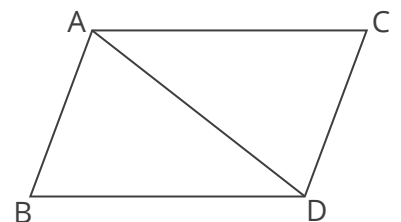
No, since angle BAD = 70° and angle ADC = 75°

4. Prove that if I join the opposite corners of a parallelogram, I get two congruent triangles.

AB = CD and AC = BD because opposite sides in a parallelogram are equal.

AD is a shared side.

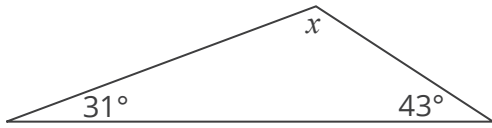
Therefore, triangle ABD and ACD have all three sides the same.



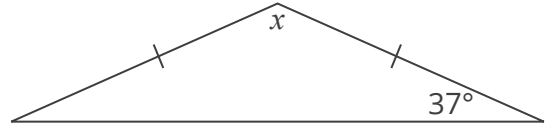
Angles in a Triangle

1. Find the missing angle marked x in each triangle.

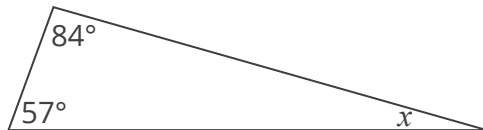
a.



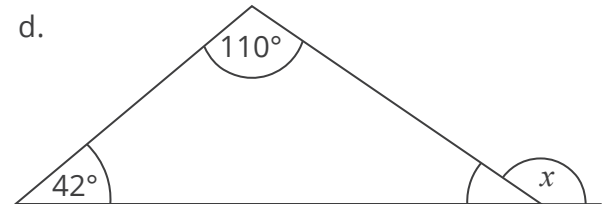
c.



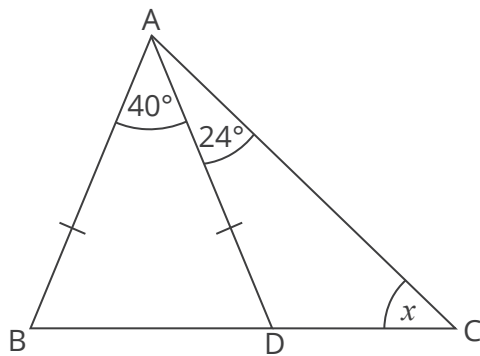
b.



d.

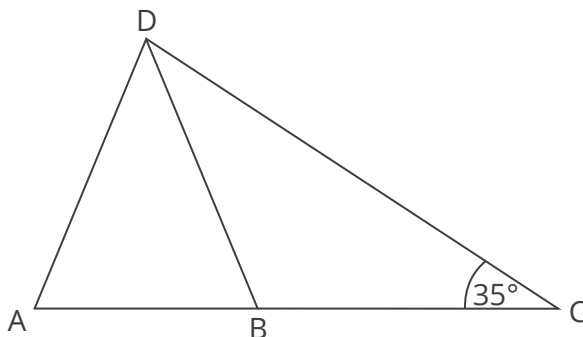


2. Find the size of the angle marked x .



3. Triangles ABD and BCD are isosceles. Is triangle ACD an isosceles triangle?

Explain your answer mathematically.



4. Prove that if I join the opposite corners of a parallelogram, I get two congruent triangles.