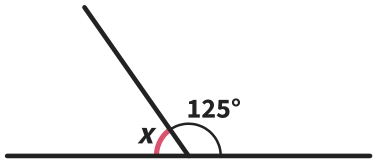
Angle facts and reasons

1

Find the size of angle x. Give a reason.



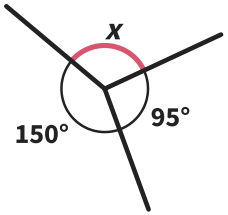
$x = 180° -$ ☐ = ☐

Reason: angles on a straight line add up to 180°

$x =$ _____

2

Find the size of angle x. Give a reason.



straight line | around a point | vertically opposite | triangle | isosceles

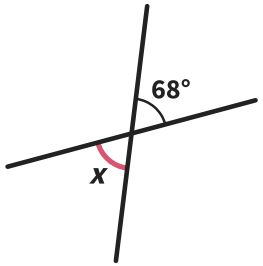
$x = 360° -$ ☐ − ☐ = ☐

Reason: _____

$x =$ _____

3

Find the size of angle x. Give a reason.



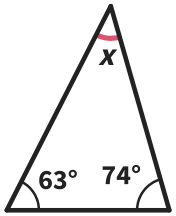
straight line | around a point | vertically opposite | triangle | isosceles

Reason: _____

$x =$ _____

4

Find the size of angle x. Give a reason.



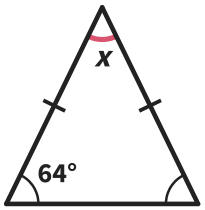
straight line | around a point | vertically opposite | triangle | isosceles

Reason: _____

$x =$ _____

5

Find the size of angle x. Give a reason for each step.

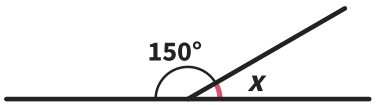


Reasons: _____

$x =$ _____

6

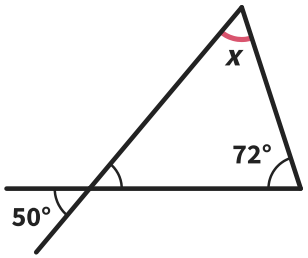
Kim says $x = 360° - 150° = 210°$.
Explain what Kim has done wrong, then find x.



$x =$ _____

7

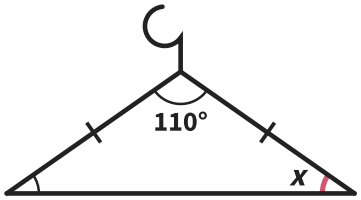
Find the size of angle x. Give a reason for each step.



$x =$ _____

8

A coat hanger is an isosceles triangle.
The angle at the top is 110°. Find x.

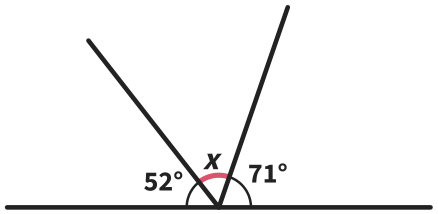


$x =$ _____

Angle facts and reasons *further practice*

9

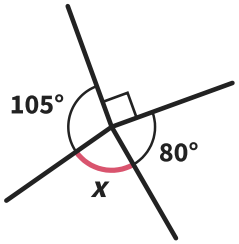
Find the size of angle x. Give a reason.



x = _____

10

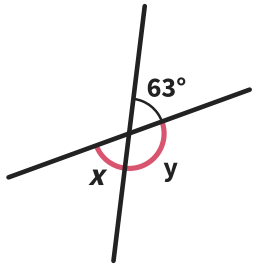
The square marks a right angle.
Find the size of angle x.



x = _____

11

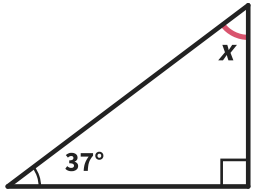
Two straight lines cross. Find x and y.
Give a reason for each.



Answer _____

12

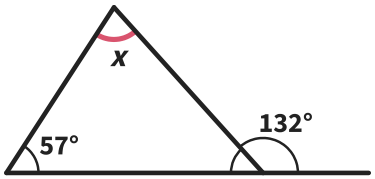
A flower bed is a right angled triangle.
One of its angles is 37°. Find x.



x = _____

13

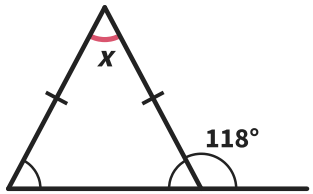
Find the size of angle x. Give a reason for each step.



x = _____

14

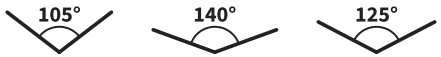
The triangle is isosceles. Find the size of angle x.



x = _____

15

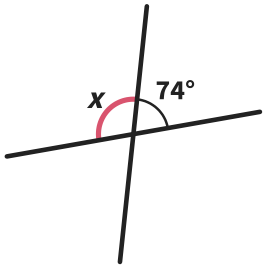
Ali says angles of 105°, 140° and 125° fit together around a point. Is he right? Show how you know.



Answer _____

16

Ben says $x = 74°$ because the angles are vertically opposite. Explain why Ben is wrong. Find x.



x = _____