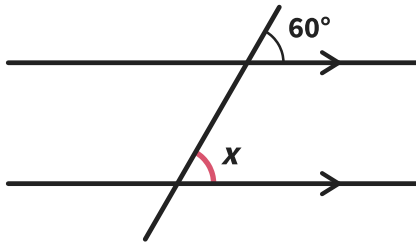


Angles on Parallel Lines

ANSWERS

1

Find the size of angle x .

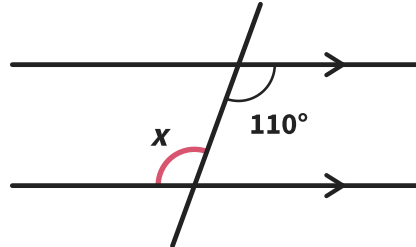


corresponding angles are equal

$$x = 60^\circ$$

2

Find the size of angle x .

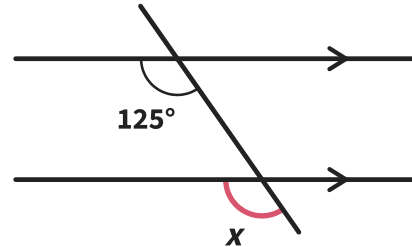


alternate angles are equal

$$x = 110^\circ$$

3

Find the size of angle x .

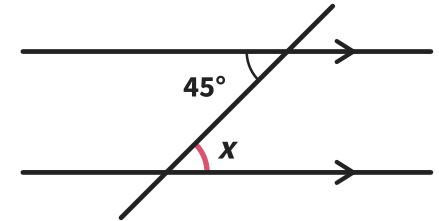


corresponding angles are equal

$$x = 125^\circ$$

4

Find the size of angle x .

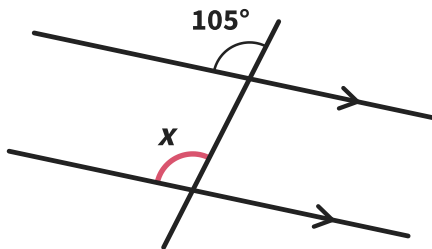


alternate angles are equal

$$x = 45^\circ$$

5

Find the size of angle x .

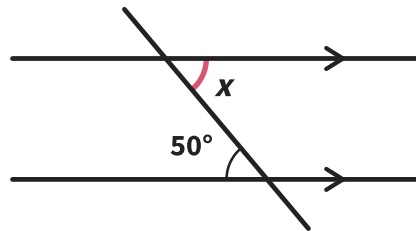


corresponding angles are equal

$$x = 105^\circ$$

6

Find the size of angle x .

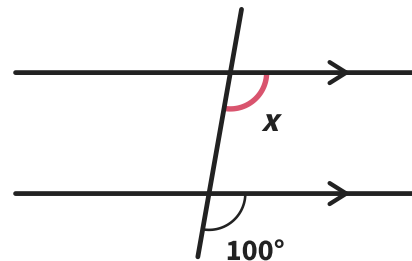


alternate angles are equal

$$x = 50^\circ$$

7

A straight path crosses two parallel fences. Find x .

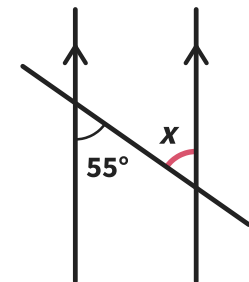


corresponding angles are equal

$$x = 100^\circ$$

8

The two lines are parallel. Find x .



alternate angles are equal

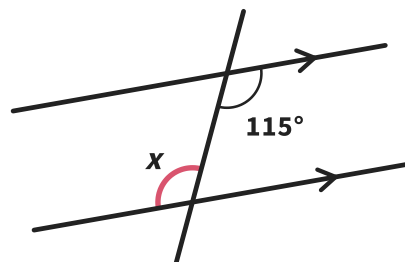
$$x = 55^\circ$$

Angles on Parallel Lines *further practice*

ANSWERS

9

Find the size of angle x .

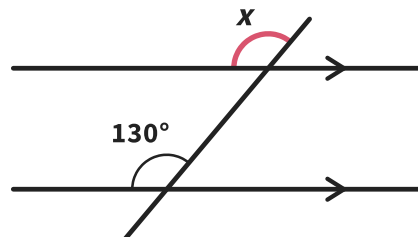


alternate angles are equal

$$x = 115^\circ$$

10

A straight path crosses a road with parallel edges. Find x .

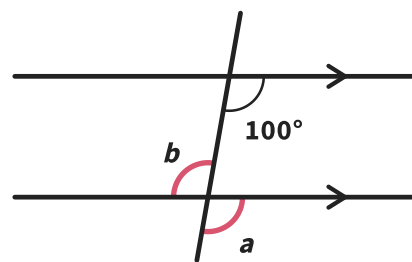


corresponding angles are equal

$$x = 130^\circ$$

11

Find the sizes of angles a and b .

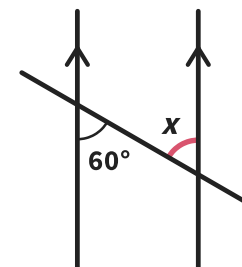


$$a = 100^\circ \text{ corresponding}$$

$$b = 100^\circ \text{ alternate}$$

12

A gate has two parallel sides and a straight bar. Find x .

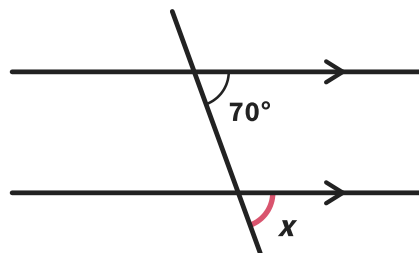


alternate angles are equal

$$x = 60^\circ$$

13

Find the size of angle x .
Give a reason.



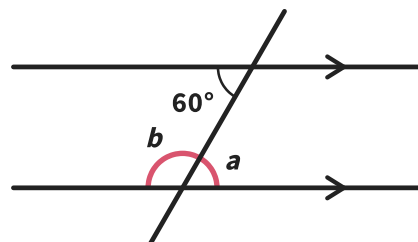
$$x = 70^\circ$$

Reason

Corresponding angles are equal

14

Find angle a . Then find angle b .



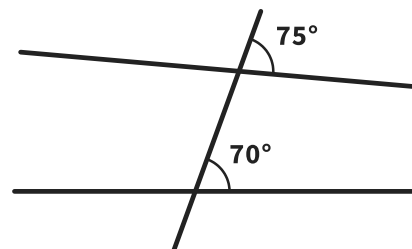
$$a = 60^\circ$$

$$180 - 60 = 120$$

$$b = 120^\circ$$

15

Are these two lines parallel?
Show how you know.



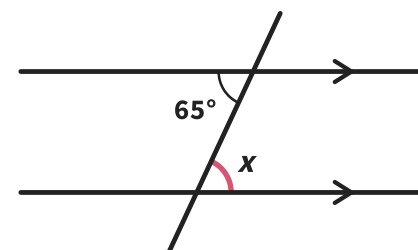
75° and 70° are corresponding.

They are not equal.

Answer *No*

16

Sam says $x = 180 - 65 = 115^\circ$.
What has Sam done wrong?



Alternate angles are equal, so do not take 65 from 180.

$$\text{So } x = 65^\circ$$