

24th August

Corbettmaths

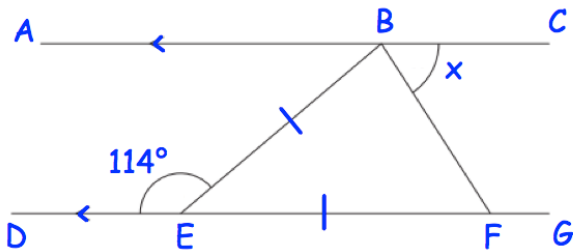
Solve $x^2 - 6x - 27 = 0$

There are 20 students in class 1.
There are 10 students in class 2.

Both classes sit the same test.

The mean mark in class 1 is 70%.
The mean mark in class 2 is 90%

Work out the overall mean for both classes.



Find the size of the angle x .
Give reasons for your answer.

A drink is made from mixing orange juice and lemonade in the ratio 1:4

Lemonade costs £0.80 per litre.
Orange juice costs £1.50 per litre.

Work out the cost of 4 litres of the drink.

Solve the simultaneous equations

$$5x + 3y = 51$$

$$3x + 5y = 37$$