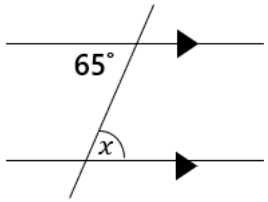
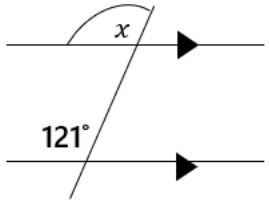
ANGLES IN PARALLEL LINES

Task 1 – For each of the following, work out the size of the angle x. Give a reason for your answer.

1)



2)



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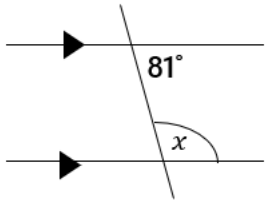

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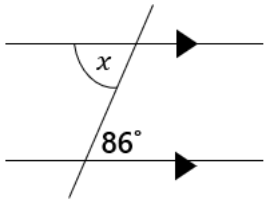

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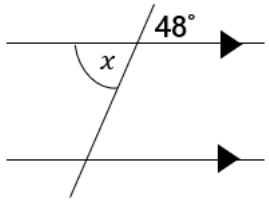

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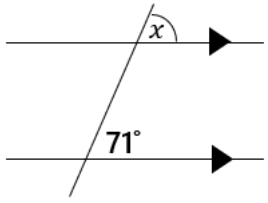

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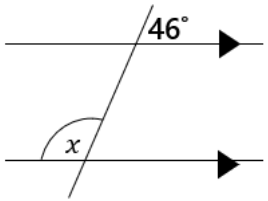

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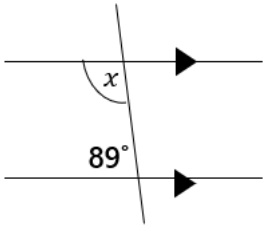
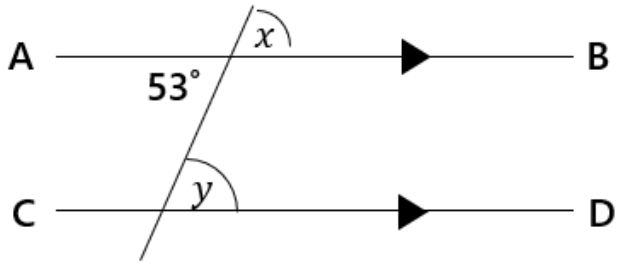


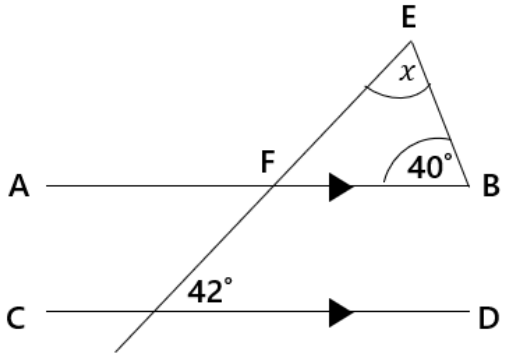
Task 2 – Note that for each of the following questions, the diagrams are not drawn accurately.

9) **AB and CD are parallel lines.**
Work out the size of the angles x and y.



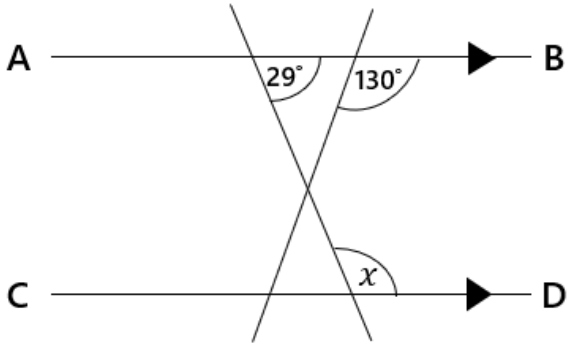
Give reasons for your answers.

10) **AB and CD are parallel lines.**
FEB is a triangle.
Work out the size of the angle x.



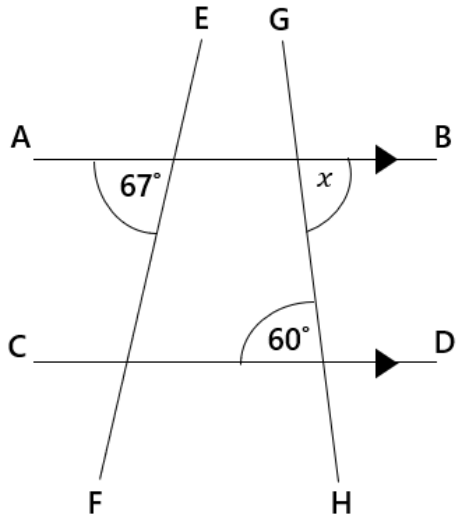
Give a reason for each stage of your working.

11) **AB and CD are parallel lines.**
Work out the size of the angle marked x.



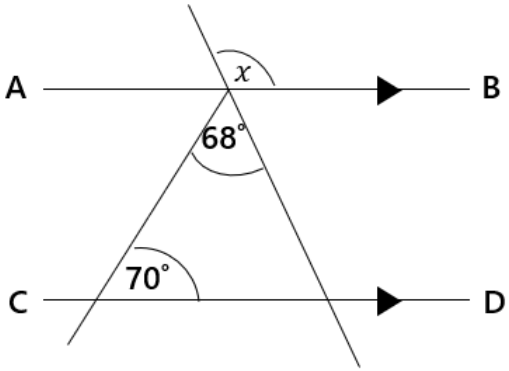
Give two reasons for your answer.

12) AB and CD are parallel lines. Work out the size of the missing angle x.



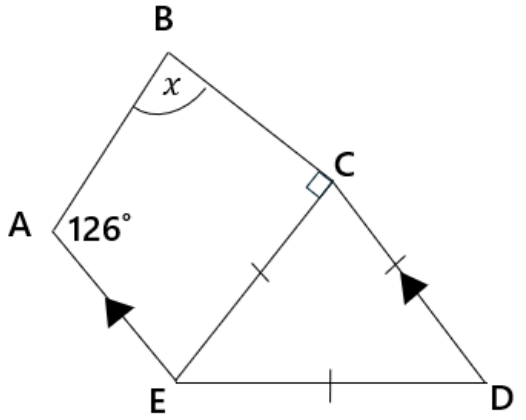
Give a reason for your answer.

13) AB and CD are parallel lines.
Work out the size of the angle marked x.

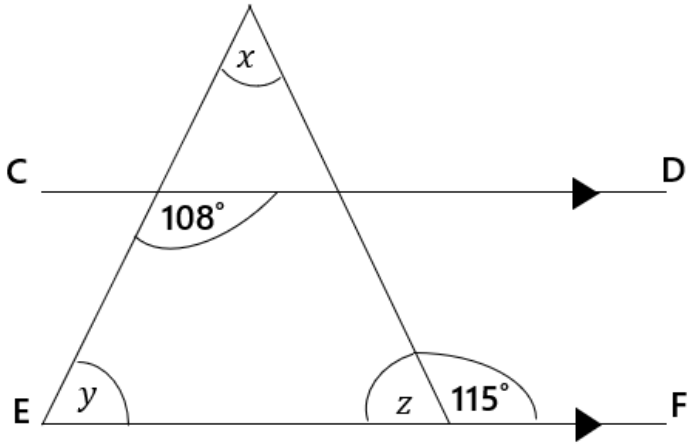


Give a reason for each stage in your working.

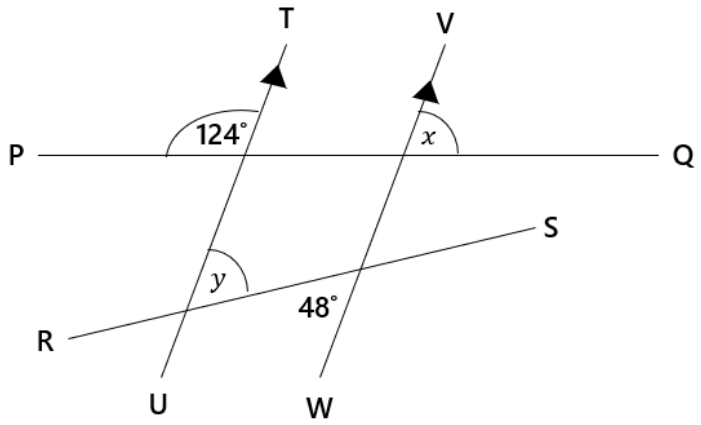
14) ABCE is a quadrilateral and CED is a triangle. Work out the size of the missing angle x. You must show all your working.



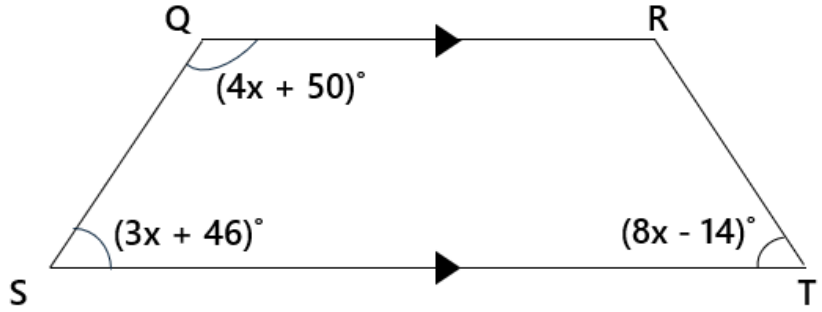
15) The lines CD and EF are parallel. Work out the size of the missing angles x, y and z. You must show all your working.



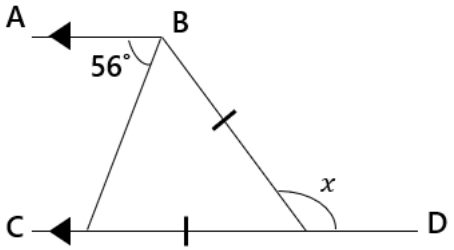
16) The lines TU and VW are parallel. Work out the size of the missing angles x and y. Give reasons for your answers.



17) QRST is a trapezium. Work out the size of the smallest angle in the trapezium.

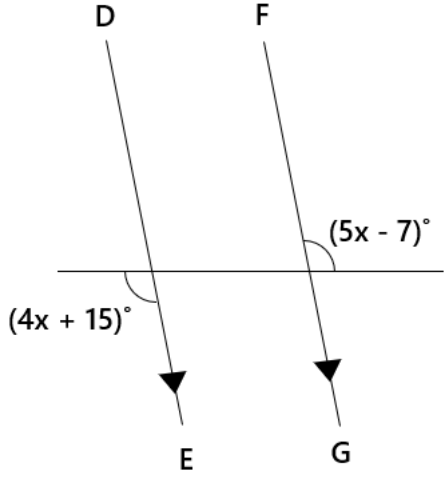


18) AB and CD are parallel lines. Work out the size of the missing angle x.



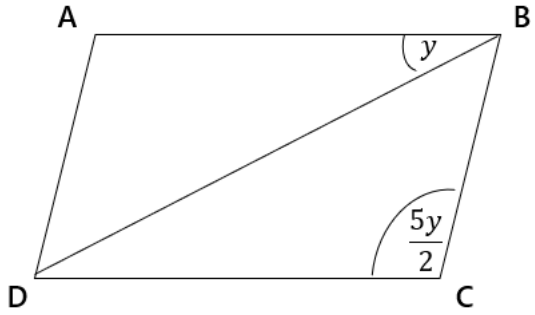
Give a reason for each stage in your working.

19) DE and FG are parallel lines. Solve for x.



Challenge

20) ABCD is a parallelogram.



Find an expression, in terms of y, for the angle DBC.