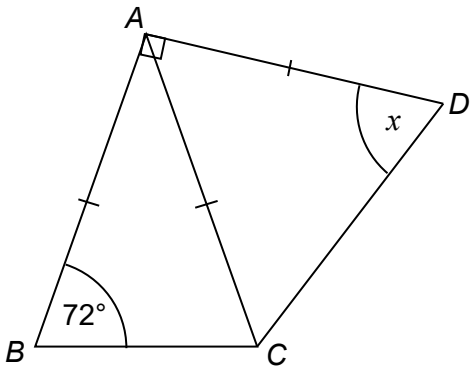
Topic Test 1 (20 minutes)

Angles - Higher

1 $AB = AC = AD$

Angle $BAD = 90°$



Not drawn accurately

Work out the size of angle x.

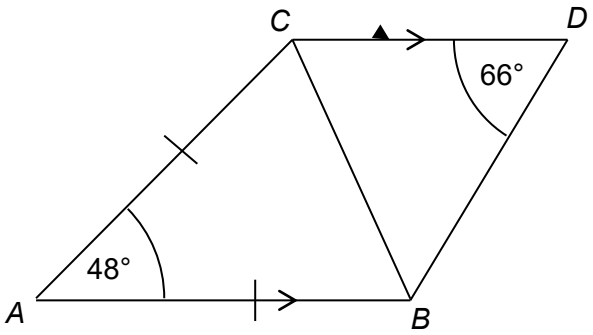
You **must** show your working which may be on the diagram.

[4 marks]

Answer _____ degrees

2 $AB = AC$

AB is parallel to CD.

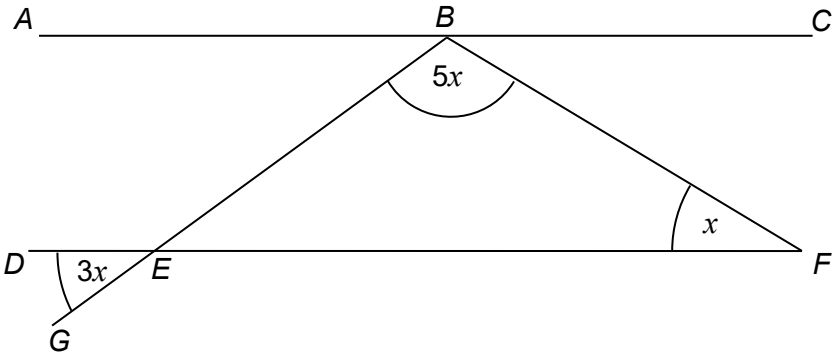


Not drawn accurately

Prove that triangle BCD is isosceles.

[3 marks]

3



Not drawn accurately

In the diagram

angle *EBF* is five times the size of angle *EFB*

angle *DEG* is three times the size of angle *EFB*.

3 (a) Work out the size of angle x.

[3 marks]

Answer _____ degrees

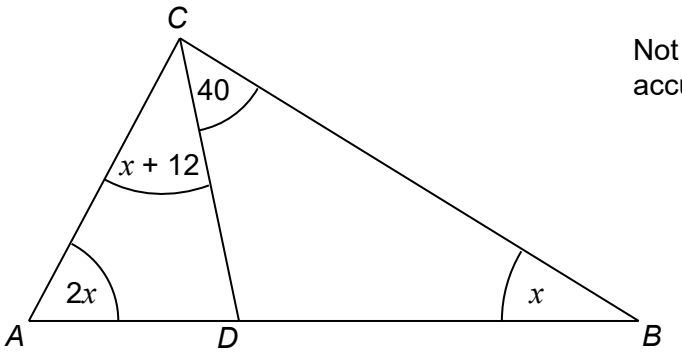
3 (b) Angle *ABE* = angle *CBF*

Are the lines *AC* and *DF* parallel?

Give a reason for your answer.

[2 marks]

4 All angles are in degrees.



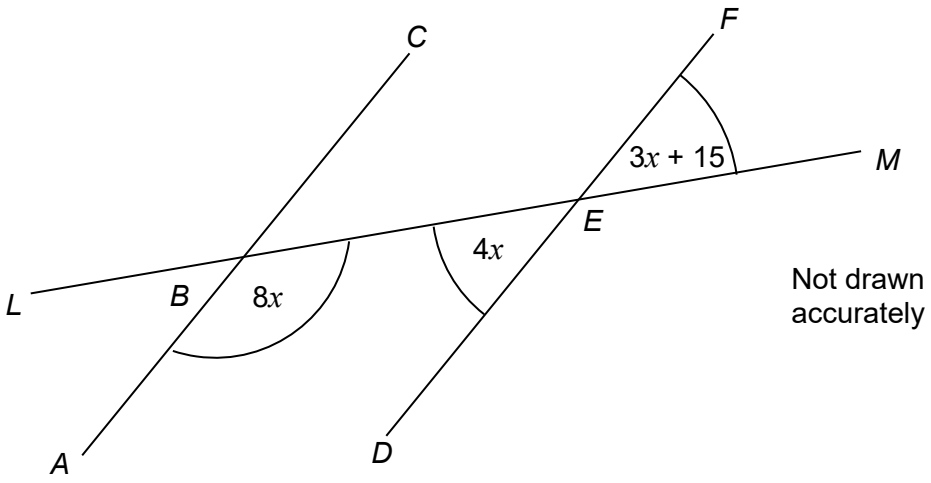
Not drawn accurately

Work out the size of angle *CDB*.

[4 marks]

Answer _____ degrees

5 The diagram shows three straight lines.
All angles are in degrees.



Prove that *AC* is parallel to *DF*.

[4 marks]