Revision Sheet

IGCSE Mathematics · Unit 4 Geometry

22 vocabulary items · 22 marks of exam questions (4 questions)

Part 1 · Vocabulary review (22 items). The terms this unit is examined on most. Mark it yourself from the answer key.

Section A · Chinese to English

Write the English word.

1. _____ [1]

2. _____ [1]

3. _____ [1]

4. _____ [1]

5. _____ [1]

6. _____ [1]

7. _____ [1]

8. _____ [1]

9. _____ [1]

10. _____ [1]

11. _____ [1]

12. _____ [1]

13. _____ [1]

14. _____ [1]

15. _____ [1]

16. _____ [1]

17. _____ [1]

18. _____ [1]

19. _____ [1]

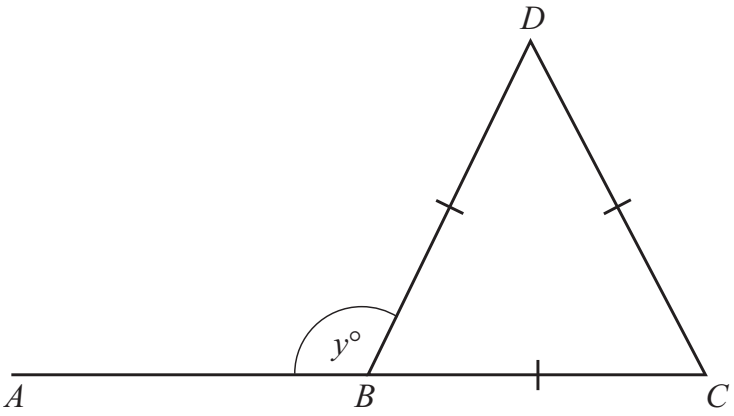
20. _____ [1]

21. _____ [1]

22. _____ [1]

Part 2 · Exam questions (22 marks, 4 questions) begins on the next page. They are ordered easy to difficult and none of them has been set before.

23



NOT TO SCALE

The diagram shows a triangle *BCD* and a straight line *ABC*.
DB=DC=BC.

(a) Write down the mathematical name for triangle *BCD*.

..... [1]

(b) Work out the value of *y*.
Give two geometrical reasons for your answer.

y = ... because

1. .....

2. .....
[4]

24 The scale drawing shows the position of ship A.
The scale is 1 centimetre represents 50 kilometres.

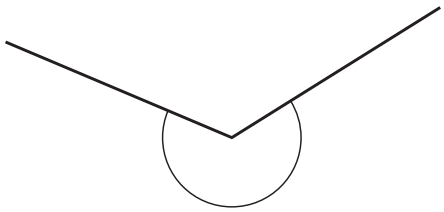
Scale: 1 cm to 50 km

Ship B is 300 km from ship A on a bearing of 105°.

On the scale drawing mark the position of ship B.

[2]

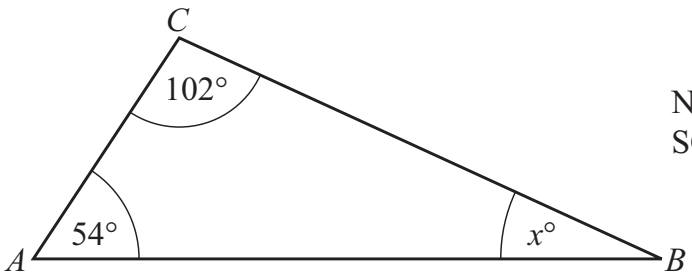
25 (a)



Write down the mathematical name for this type of angle.

..... [1]

(b) *ABC* is a triangle.



NOT TO SCALE

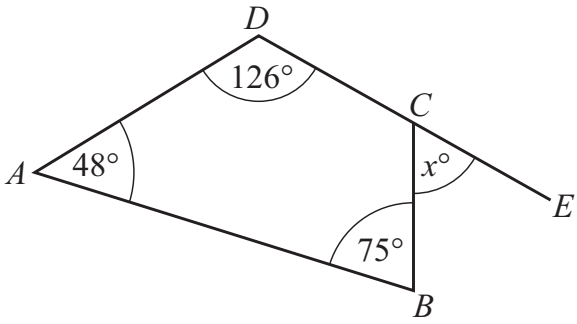
Lily says x is 34.

Give a geometrical reason why Lily is not correct.

.....

..... [1]

(c)



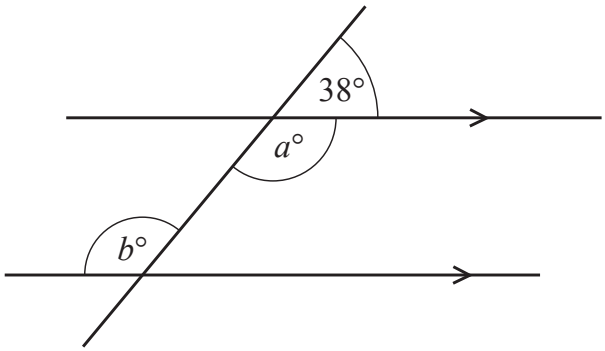
NOT TO SCALE

ABCD is a quadrilateral.
DCE is a straight line.

Calculate the value of x.

$x =$ ..... [2]

26 (a)



NOT TO SCALE

The diagram shows a straight line intersecting two parallel lines.

Find the value of a and the value of b.

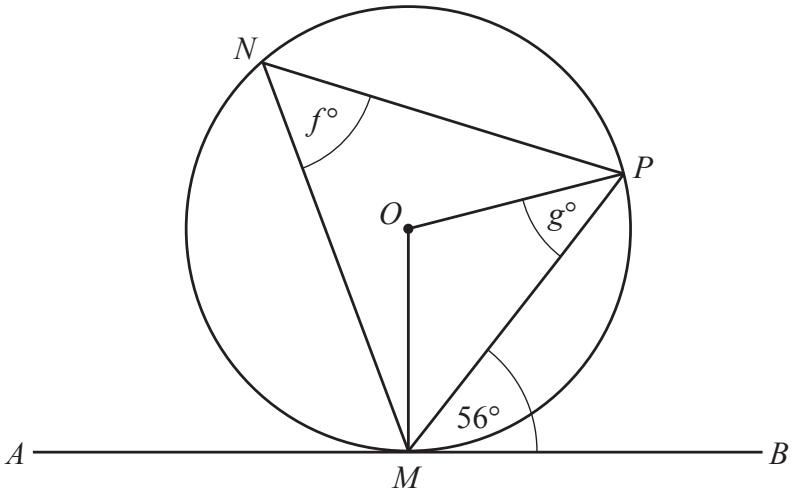
$a =$ .....

$b =$ ..... [2]

(b) Calculate the interior angle of a regular 12-sided polygon.

..... [2]

(c)



NOT TO SCALE

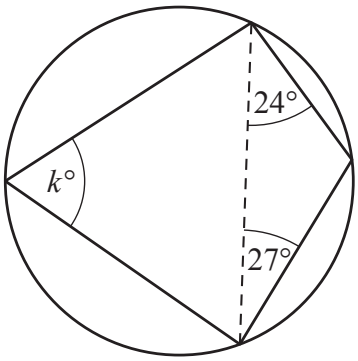
The diagram shows a circle, centre O.
The points M, N and P lie on the circumference of the circle.
AMB is a tangent to the circle at M.

Find the value of f and the value of g.

$f =$ .....

$g =$ ..... [3]

(d)



NOT TO SCALE

The diagram shows a cyclic quadrilateral.

Find the value of k.

$k =$ ..... [2]