

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.

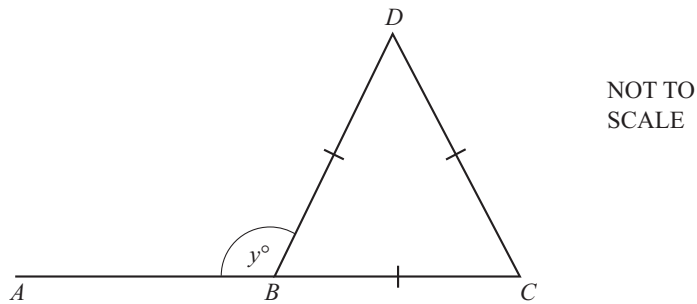
Section A · Chinese to English

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.



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.

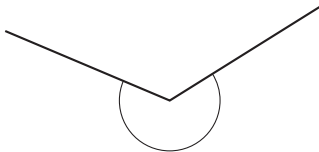


Scale: 1 cm to 50 km

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

On the scale drawing mark the position of ship B .
[2]

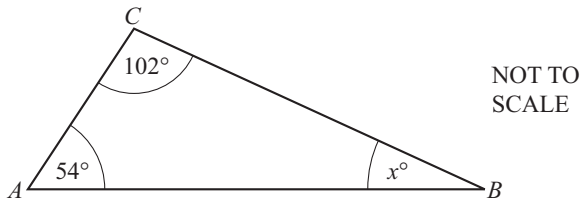
25 (a)



Write down the mathematical name for this type of angle.

..... [1]

(b) ABC is a triangle.

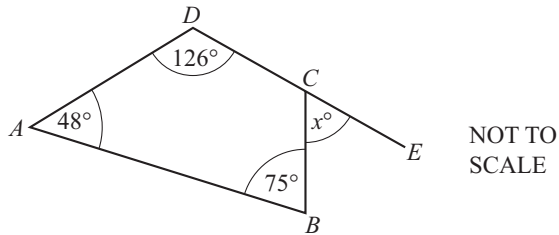


Lily says x is 34.

Give a geometrical reason why Lily is not correct.

.....
..... [1]

(c)

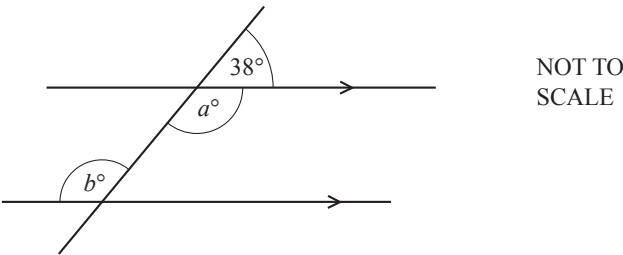


$ABCD$ is a quadrilateral.
 DCE is a straight line.

Calculate the value of x .

$x =$ [2]

26 (a)



The diagram shows a straight line intersecting two parallel lines.

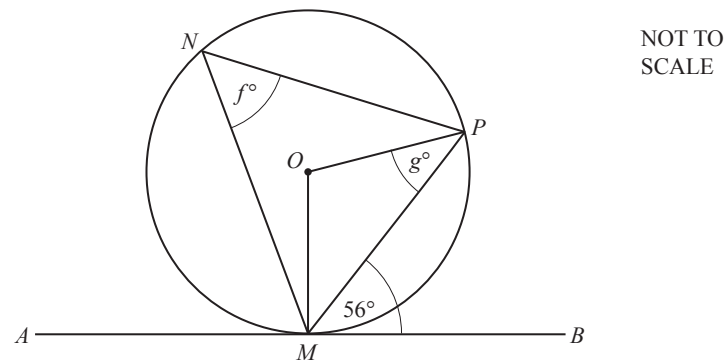
Find the value of a and the value of b .

$a =$
 $b =$ [2]

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

..... [2]

(c)

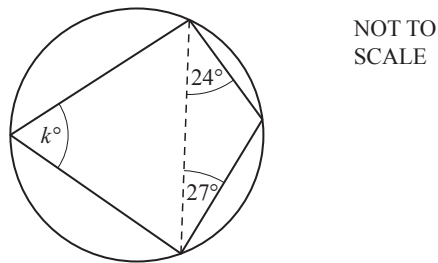


The diagram shows a circle, centre O .
The points M , N and P lie on the circumference of the circle.
 AMB is a tangent to the circle at M .

Find the value of f and the value of g .

$f =$
 $g =$ [3]

(d)



The diagram shows a cyclic quadrilateral.
Find the value of k .

$k =$ [2]