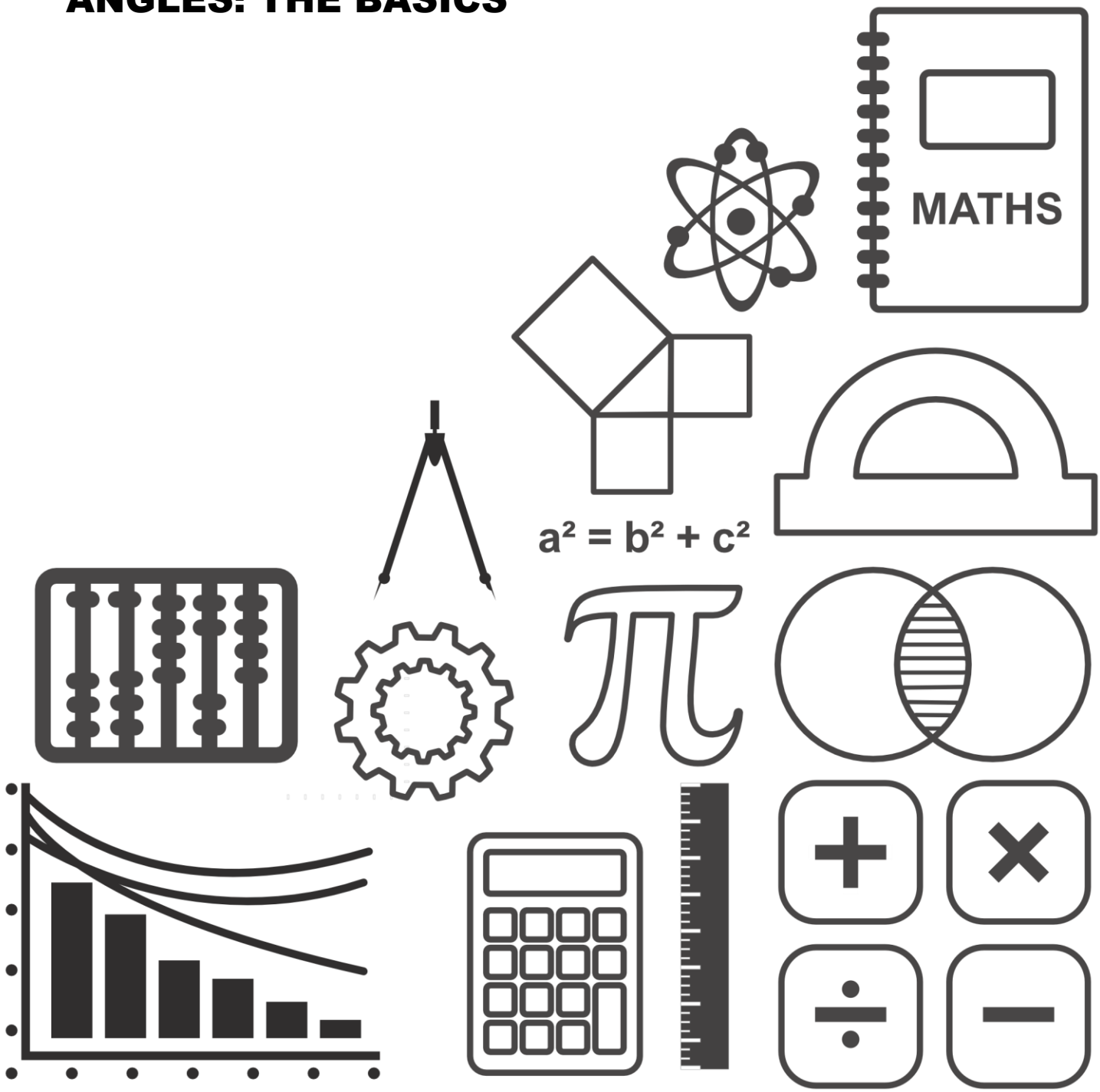
MATHSDIY

GCSE TOPIC BOOKLET
ANGLES: THE BASICS



1. *(a)* Calculate the size of the angle marked x.

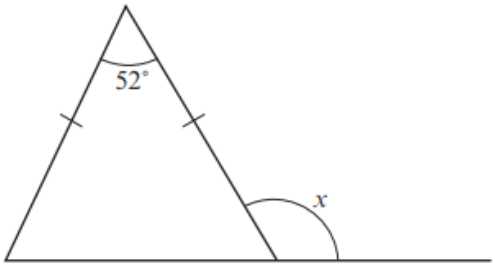


Diagram not drawn to scale

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$x =$ ..... °

[3]

(b) Calculate the size of the angle marked y.

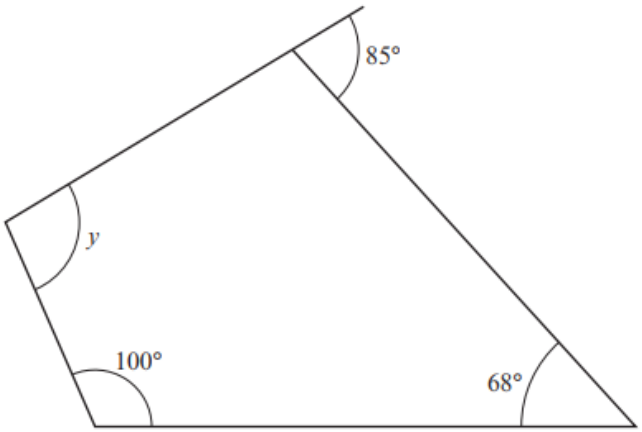

Diagram not drawn to scale

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$y =$ ..... °

[3]

2.

(a) Find the size of angle x.

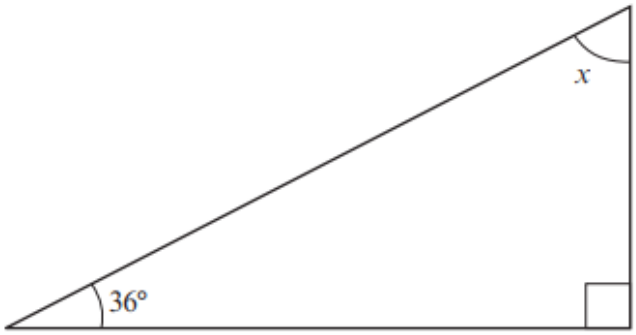

Diagram not drawn to scale

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$x =$ ..... °

[2]

(b) Find the size of angle y.

Diagram not drawn to scale

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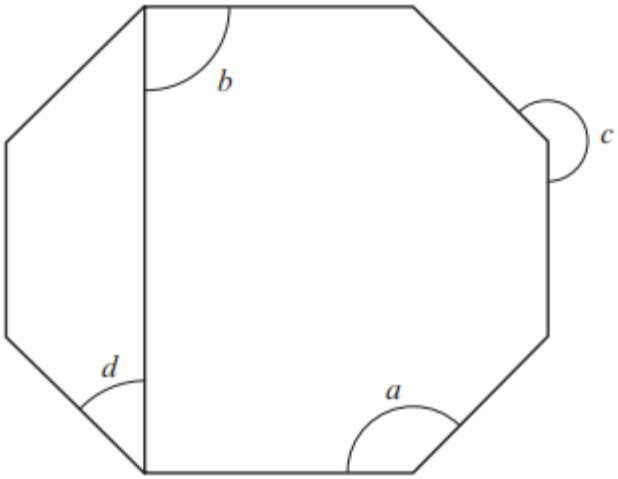
$y =$ ..... °

[3]

3.



Look at the angles marked *a*, *b*, *c* and *d*.
Write the letter of the angle alongside its special name.

acute angle .....

reflex angle .....

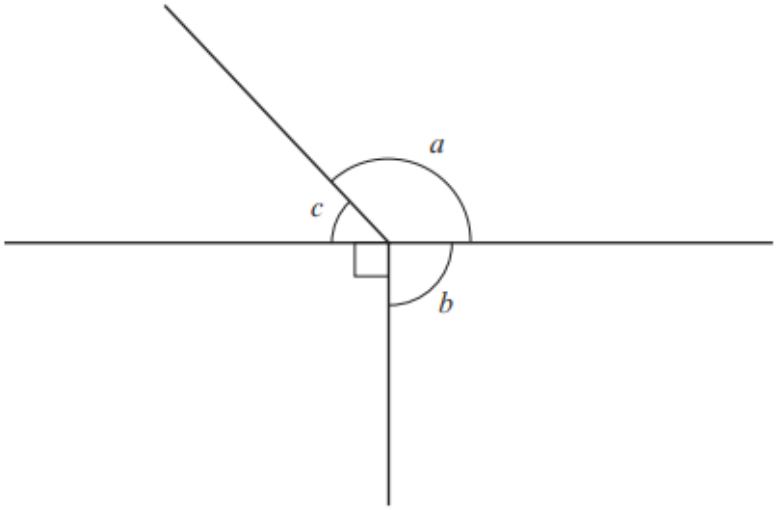
right angle .....

obtuse angle .....

[4]

4.

Look at the angles *a*, *b* and *c*.
Write the letter of the angle alongside its special name.



acute angle ..... obtuse angle ..... right angle .....

[3]

5. Find the size of the angle marked y.

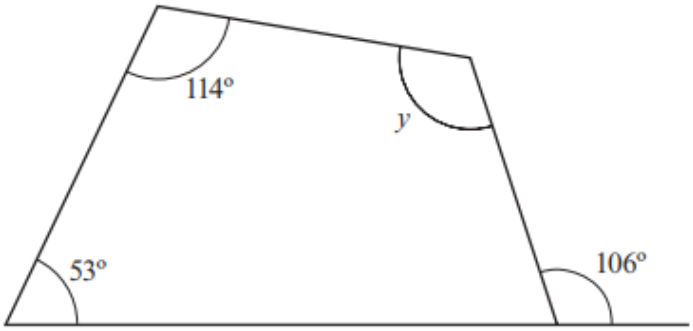


Diagram not drawn to scale

$y =$ ..... °

[3]

6. *(a)* Find the size of angle x. [2]

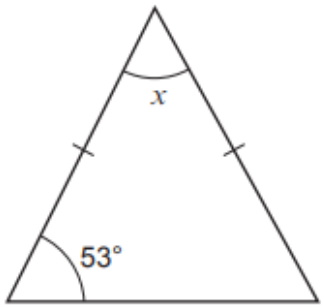


Diagram not drawn to scale

$x =$ ..... °

(b) Find the size of angle y. [3]

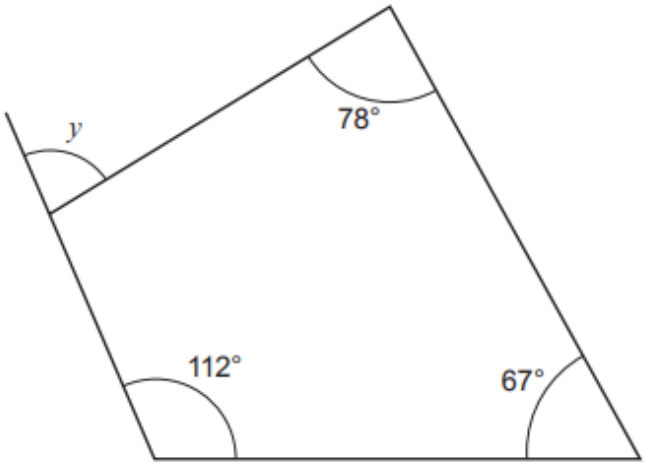


Diagram not drawn to scale

y = ... °

7.

You will be assessed on the quality of your written communication in this question.

ABC is an equilateral triangle and $BCDE$ is a square.

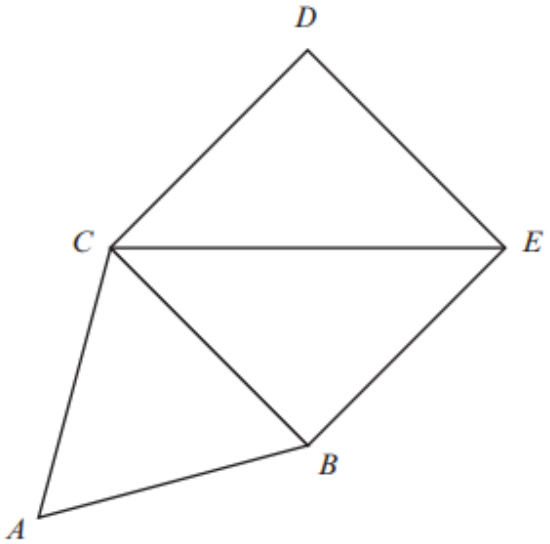


Diagram not drawn to scale

Find the size of $A\hat{C}E$.
You must explain each step of your calculation and show all your working.

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$A\hat{C}E =$ ..... °

[5]

8.

(a) In the diagram, *PS*, *QT* and *RU* are straight lines.
Find the size of angle x. [2]

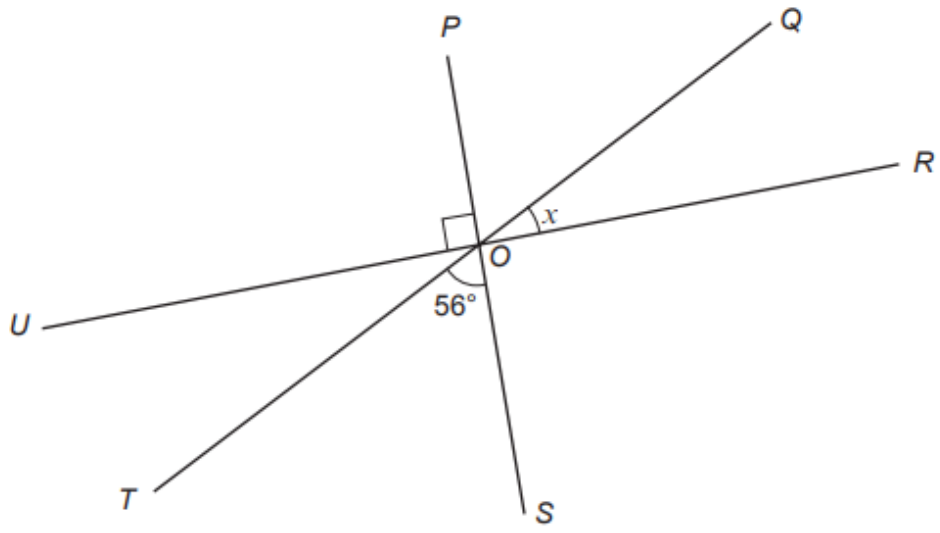

Diagram not drawn to scale

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x = ... °

(b) *ABCD* is a rhombus. Find the size of angle y. [3]

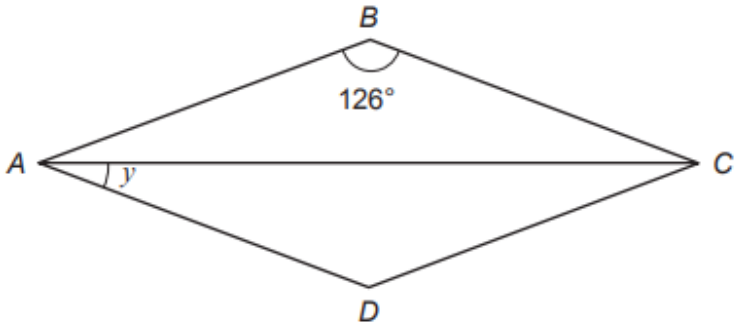

Diagram not drawn to scale

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y = ... °

9.

(a) $ABCD$ is a rhombus with $\widehat{ADB} = 37°$.
Find the size of angle x. [3]

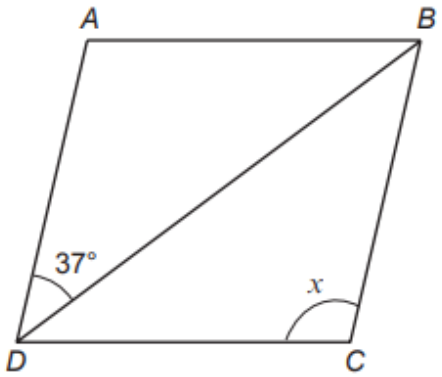


Diagram not drawn to scale

$x =$ ..... °

(b) Find the size of angle y. [3]

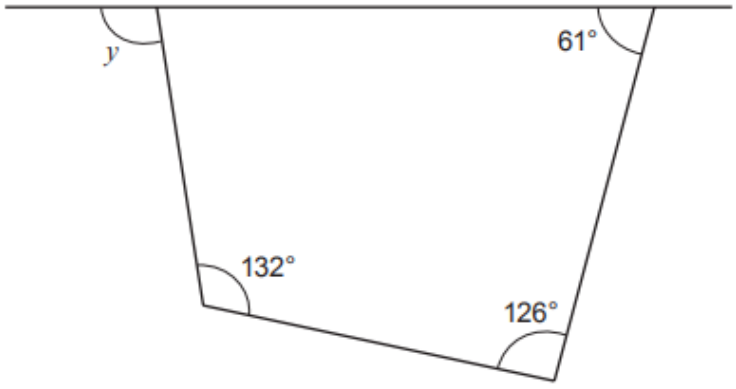
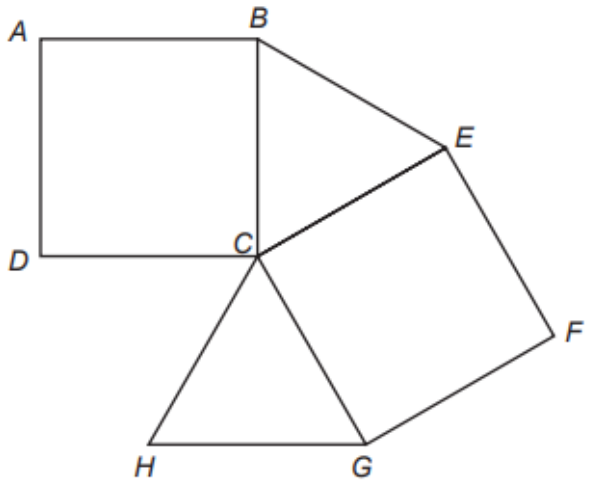


Diagram not drawn to scale

$y =$ ..... °

10.

The diagram shows 2 identical squares and 2 identical equilateral triangles.
Explain fully how another equilateral triangle will fit exactly into the gap *DCH*. [5]



11.

Martha is laying out a new design for a flowerbed in her garden, as shown in the diagram below.

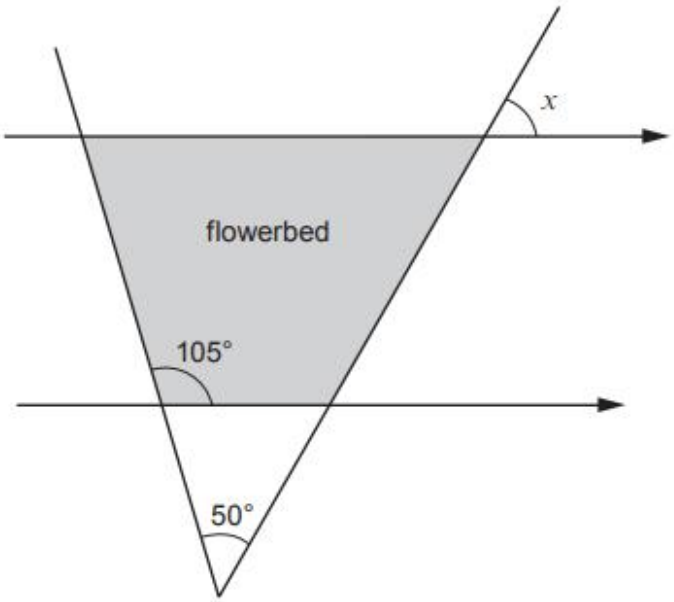


Diagram not drawn to scale

Calculate the size of angle x. [2]

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$x =$ ..... °