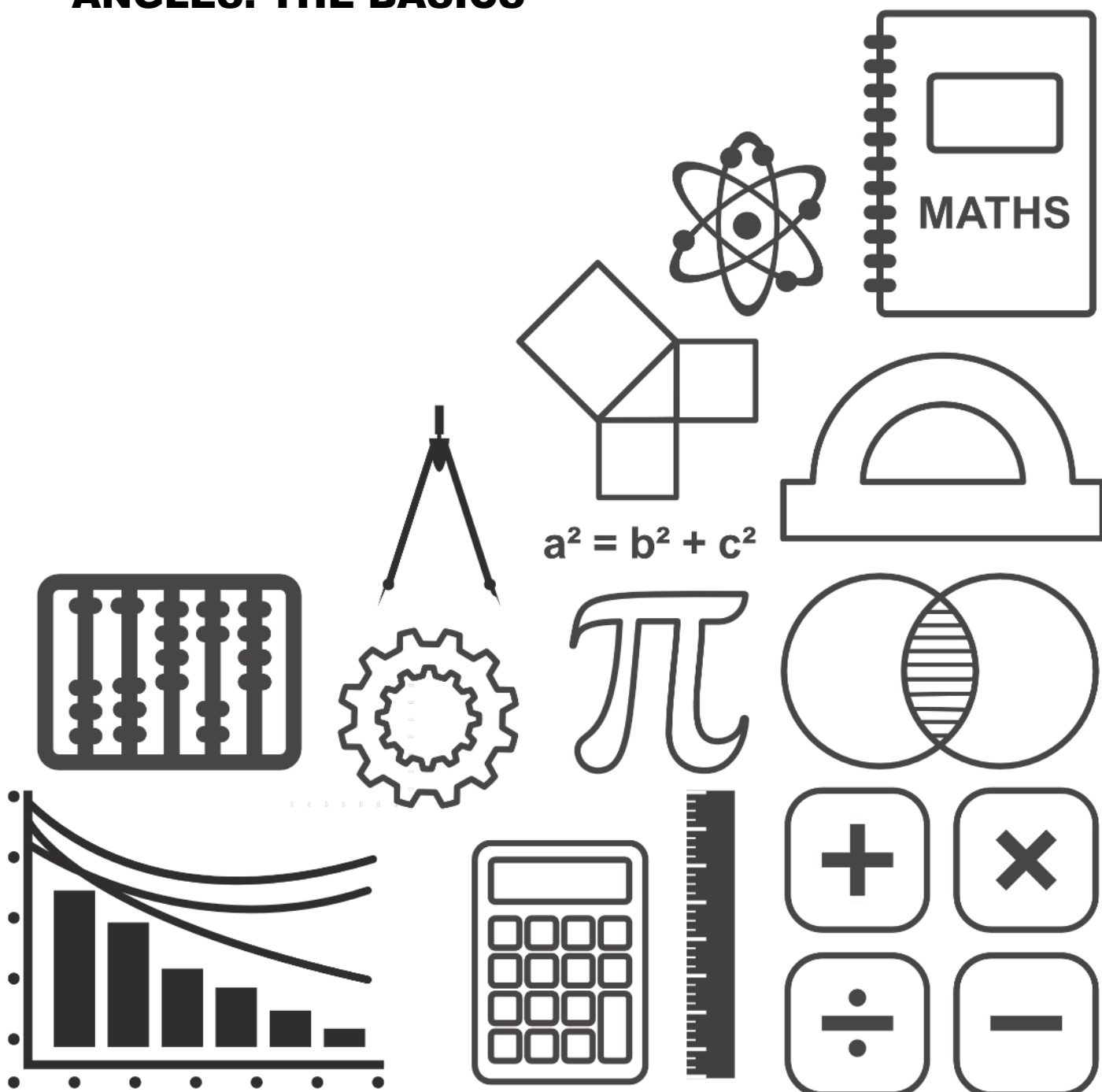


MATHSDIY

GCSE TOPIC BOOKLET ANGLES: THE BASICS



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

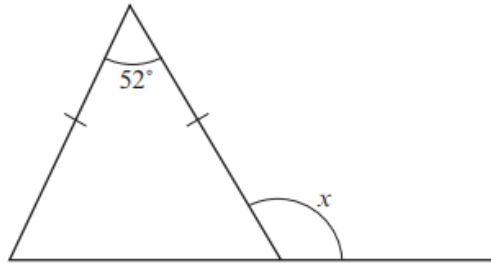


Diagram not drawn to scale

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$x = \dots\dots\dots^\circ$

[3]

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

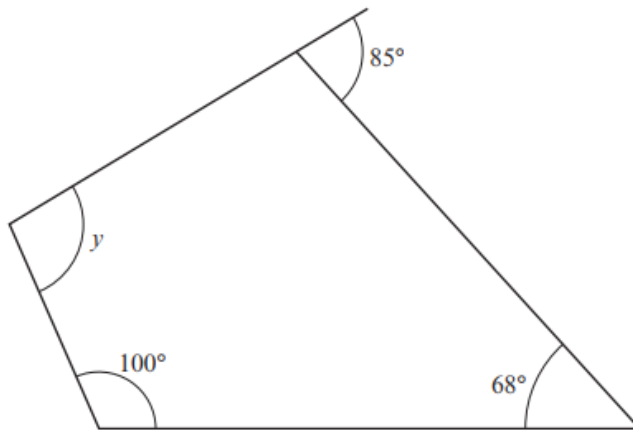


Diagram not drawn to scale

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$y = \dots\dots\dots^\circ$

[3]

2.

(a) Find the size of angle x .

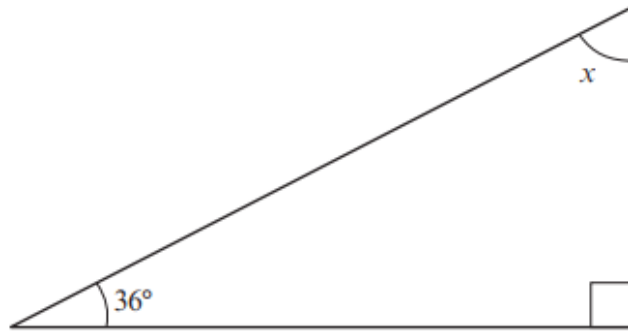


Diagram not drawn to scale

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$x = \text{.....}^\circ$

[2]

(b) Find the size of angle y .



Diagram not drawn to scale

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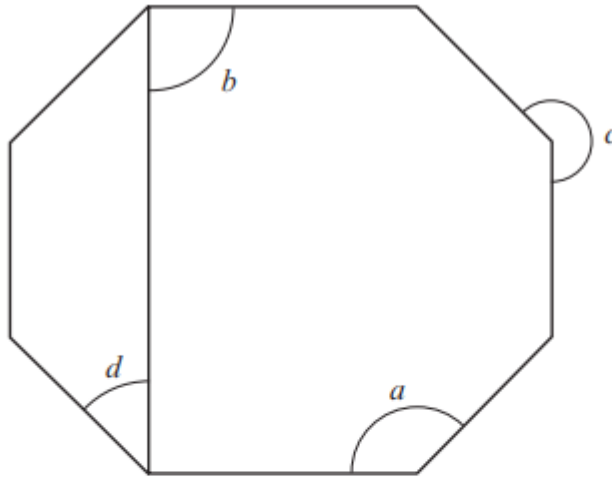
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$y = \text{.....}^\circ$

[3]

3.



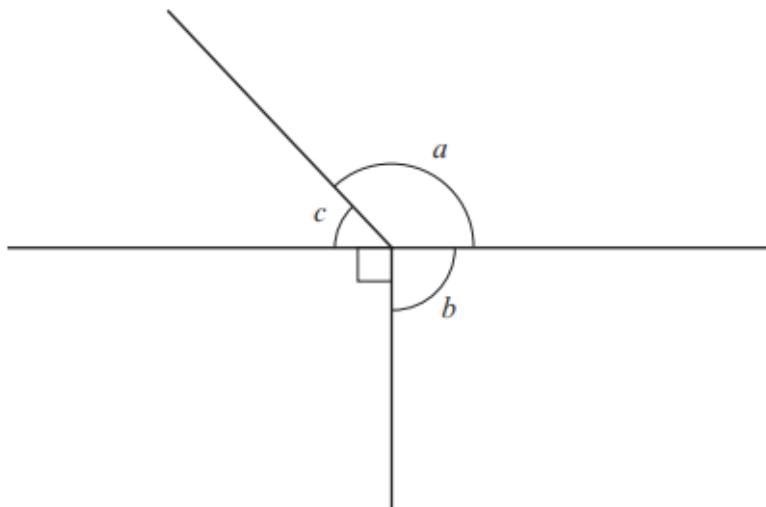
Look at the angles marked a , b , c and d .
Write the letter of the angle alongside its special name.

- 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 .

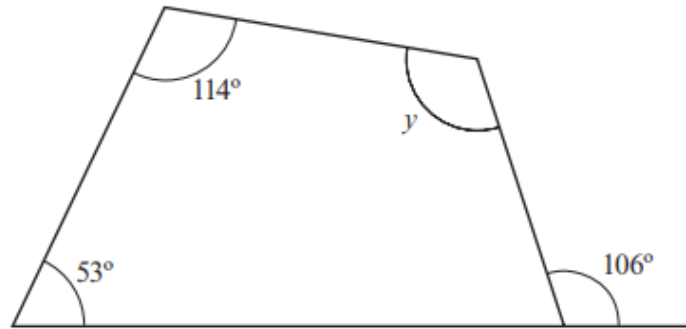


Diagram not drawn to scale

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$y = \dots\dots\dots^\circ$

[3]

6. (a) Find the size of angle x .

[2]

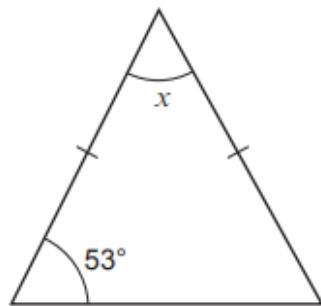


Diagram not drawn to scale

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$x = \dots\dots\dots^\circ$

(b) Find the size of angle y .

[3]

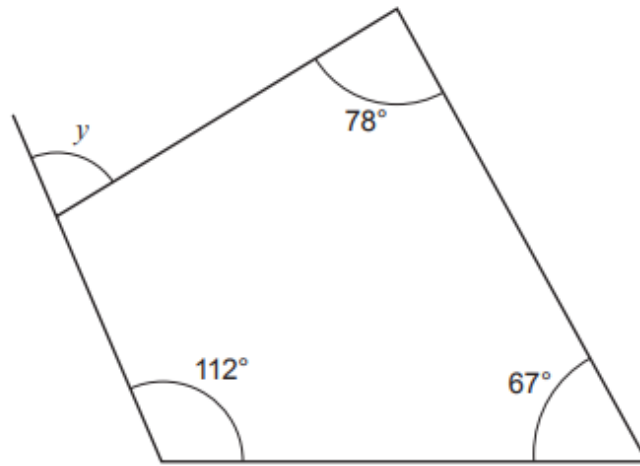


Diagram not drawn to scale

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$y = \text{.....}^\circ$

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.

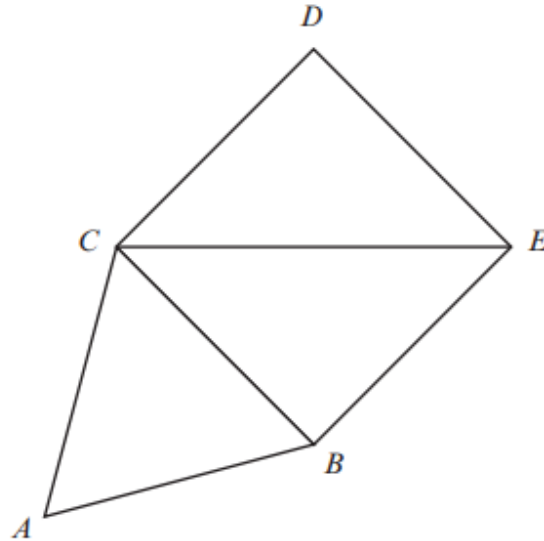


Diagram not drawn to scale

Find the size of \widehat{ACE} .

You must explain each step of your calculation and show all your working.

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$$\widehat{ACE} = \dots\dots\dots^\circ$$

[5]

8.

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

[2]

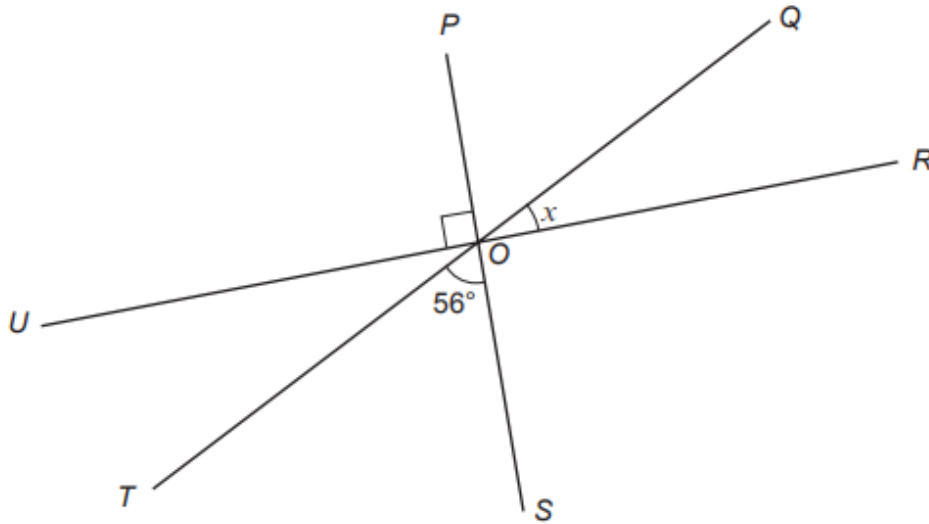


Diagram not drawn to scale

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$x = \dots\dots\dots^\circ$

- (b) $ABCD$ is a rhombus. Find the size of angle y .

[3]

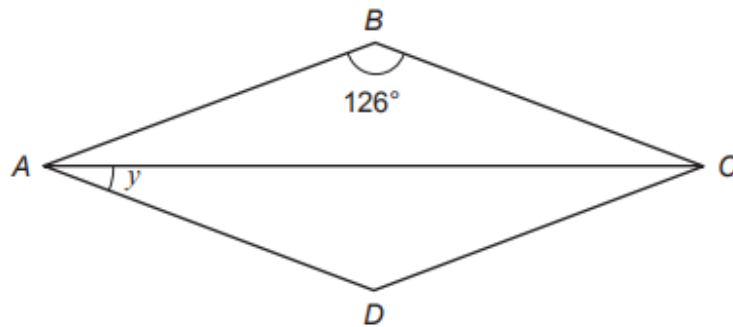


Diagram not drawn to scale

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$y = \dots\dots\dots^\circ$

9.

- (a) $ABCD$ is a rhombus with $\widehat{ADB} = 37^\circ$.
Find the size of angle x .

[3]

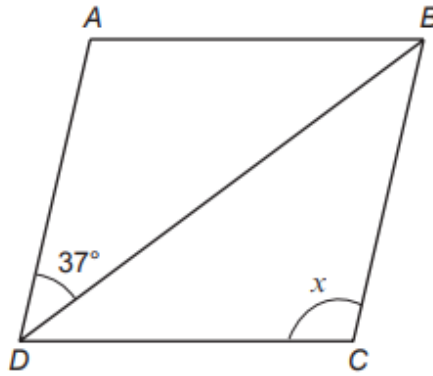


Diagram not drawn to scale

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$x = \dots\dots\dots^\circ$

- (b) Find the size of angle y .

[3]

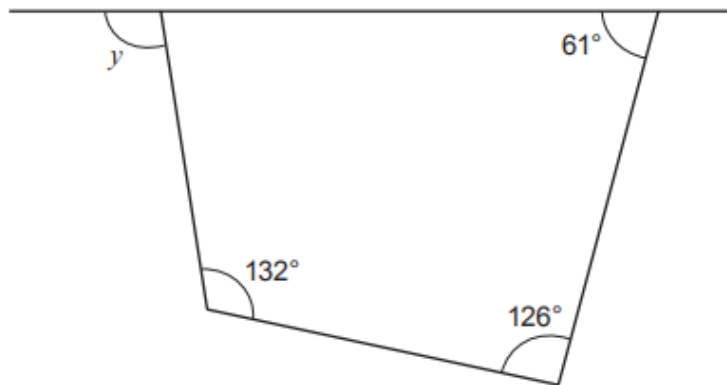


Diagram not drawn to scale

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$y = \dots\dots\dots^\circ$

11.

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

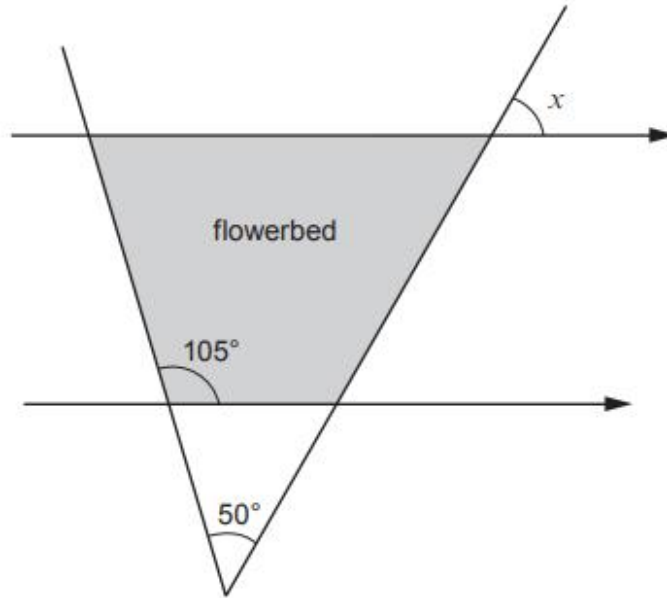


Diagram not drawn to scale

Calculate the size of angle x .

[2]

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$x = \dots\dots\dots^\circ$