

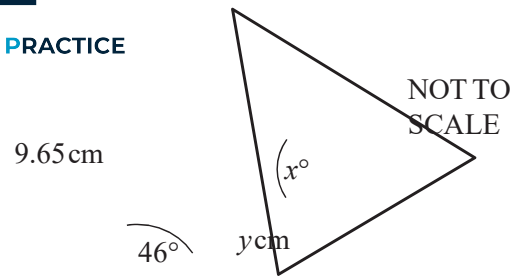
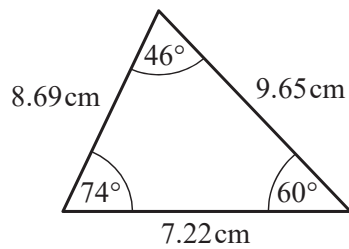


EXAM PAPERS PRACTICE

Properties of Shape

Question Paper

Question 1

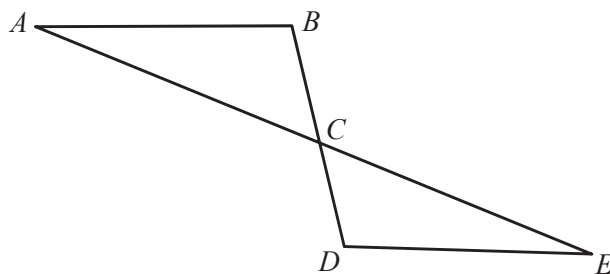


These two triangles are congruent.
Write down the value of

(a) x , [1]

(b) y . [1]

Question 2



NOT TO
SCALE

The diagram shows two straight lines, AE and BD , intersecting at C .
Angle $ABC =$ angle EDC .
Triangles ABC and EDC are congruent.

Write down **two** properties of line segments AB and DE .

[2]

Question 3



ZEBRA

Write down the letters in the word above that have

(a) exactly one line of symmetry, [1]

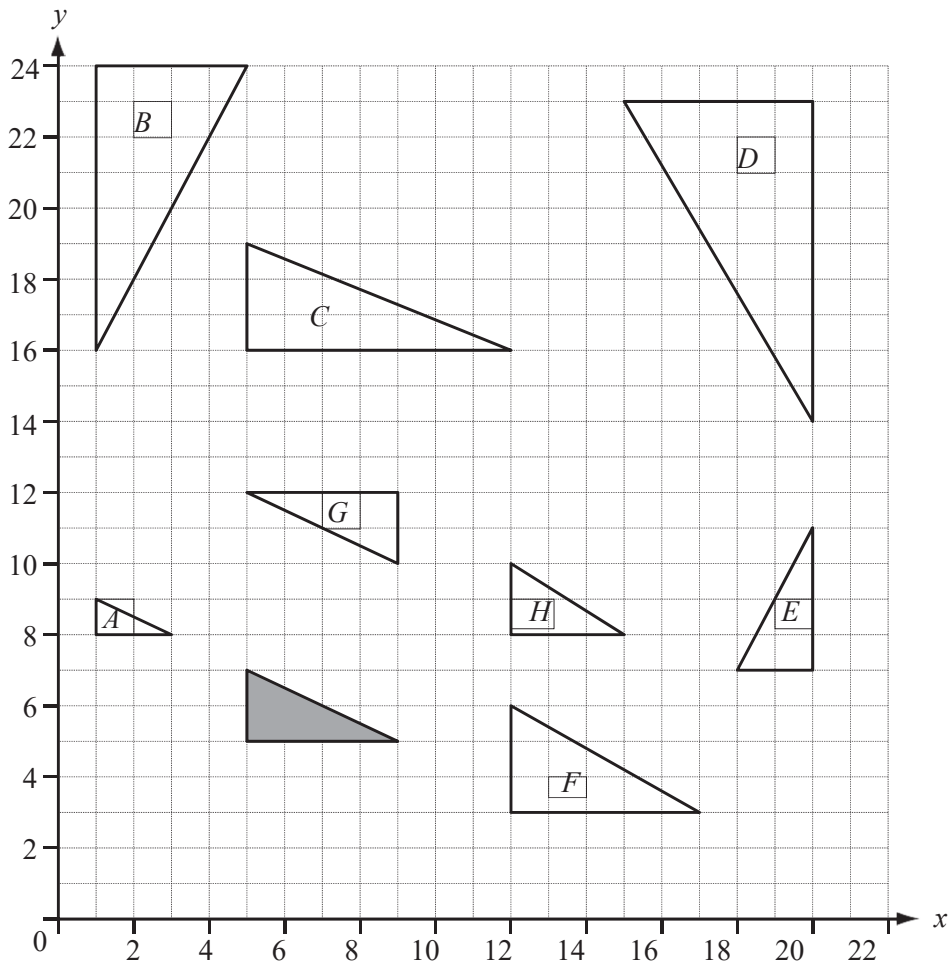
(b) rotational symmetry of order 2. [1]

Question 4

A quadrilateral has rotational symmetry of order 2 and no lines of symmetry.

Write down the mathematical name of this quadrilateral. [1]

Question 5



Write down the letters of all the triangles which are

(a) congruent to the shaded triangle,

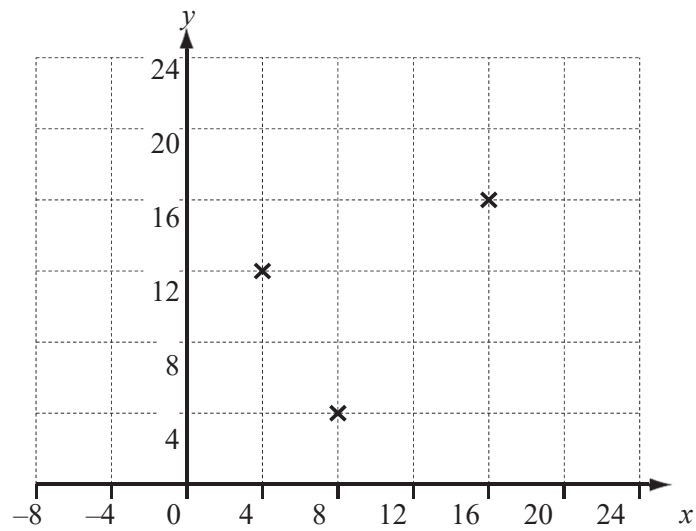
[2]

(b) similar, but not congruent, to the shaded triangle.

[2]

Question 6

Three of the vertices of a parallelogram are at $(4, 12)$, $(8, 4)$ and $(16, 16)$.



Write down the co-ordinates of two possible positions of the fourth vertex.

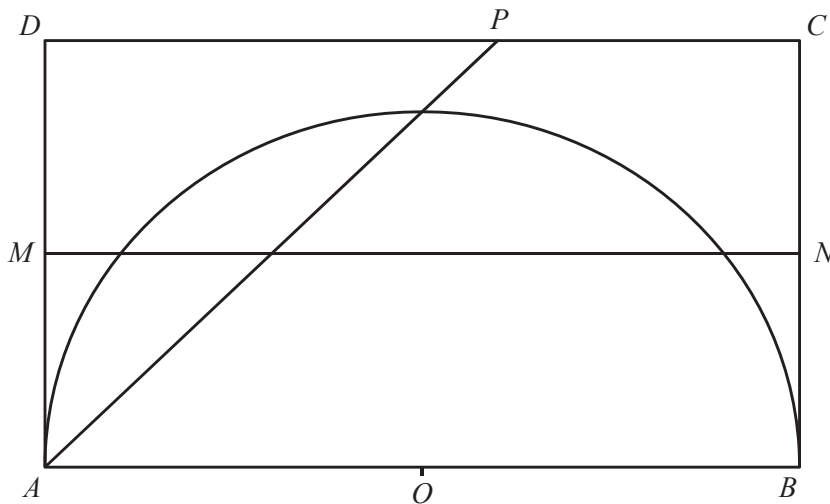
[2]

Question 7

$ABCD$ is a rectangle with $AB = 10$ cm and $BC = 6$ cm. MN is the perpendicular bisector of BC .

AP is the bisector of angle BAD .

O is the midpoint of AB and also the centre of the semicircle, radius 5 cm.



Write the letter R in the region which satisfies **all** three of the following conditions.

- nearer to AB than to AD
- nearer to C than to B
- less than 5 cm from O

[3]