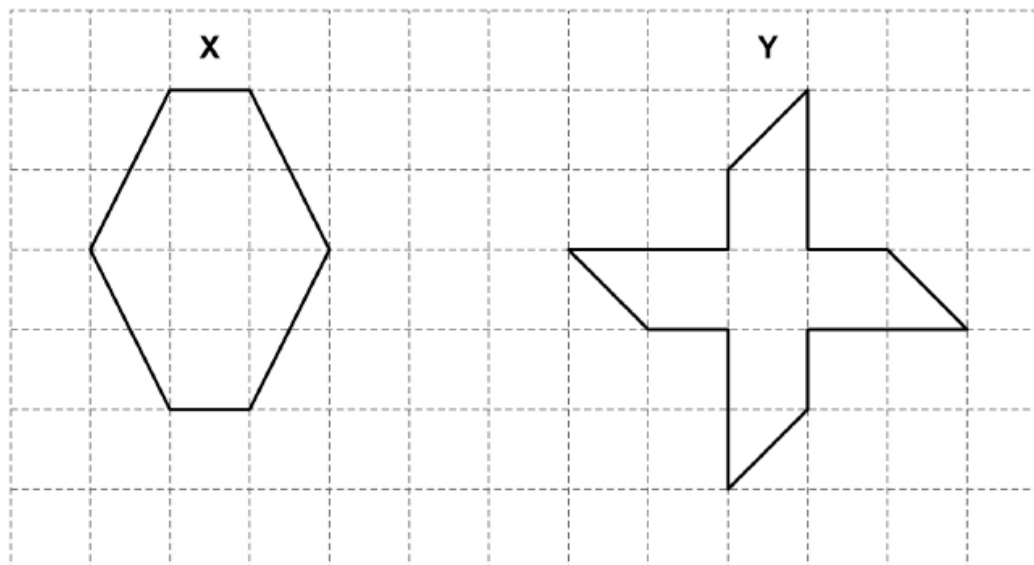


Geometry and measures – GCSE Mathematics Paper 3**1. No.10**

Shapes X and Y are shown on a centimetre grid.

**(a)** Circle the name of shape X.**[1 mark]**

pentagon

hexagon

octagon

decagon

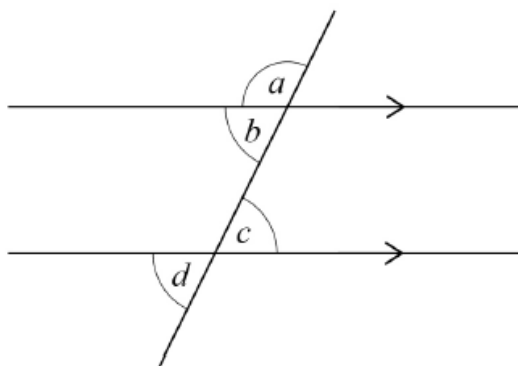
(b) Give a reason why shape Y is not a regular polygon.**[1 mark]**

(c) Complete these statements.**[2 marks]**

The number of lines of symmetry of shape X is _____

The order of rotational symmetry of shape Y is _____

2. No.18



Circle the pair of alternate angles.

[1 mark]

a and *b*

b and *c*

c and *d*

a and *d*

3. No.11

A quadrilateral has angles 70° , 110° , 130° and 50°

Circle the possible type of quadrilateral.

[1 mark]

kite

parallelogram

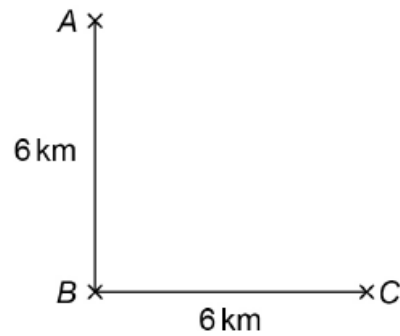
rhombus

trapezium

4. No.12

(a) B is6 km due South of A

and

6 km due West of C .Not drawn
accuratelyWork out the bearing of A from C .

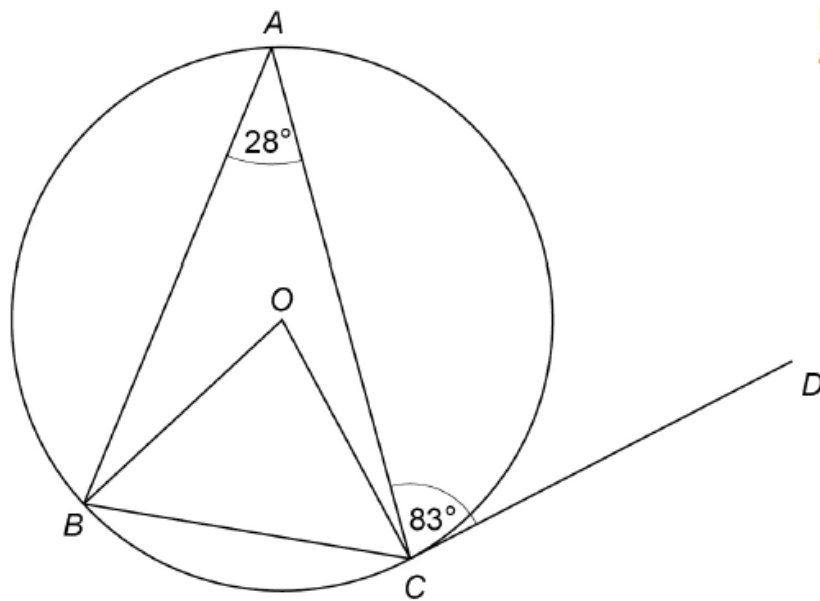
[2 marks]

Answer _____°

5. No.18

A , B and C are points on a circle, centre O .

DC is a tangent to the circle.



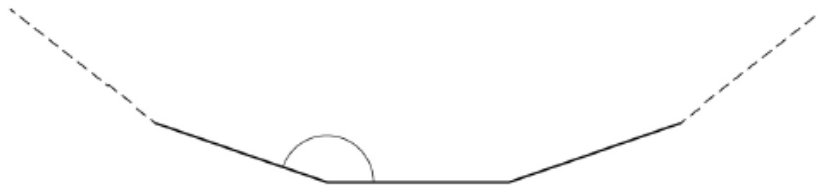
Not drawn
accurately

Show that $\text{angle } ABO : \text{angle } ACO = 3 : 1$

[5 marks]

6. No.31

Part of a regular polygon with 15 sides is shown.

Not drawn
accurately

Work out the size of an interior angle.

[2 marks]

Answer _____ degrees

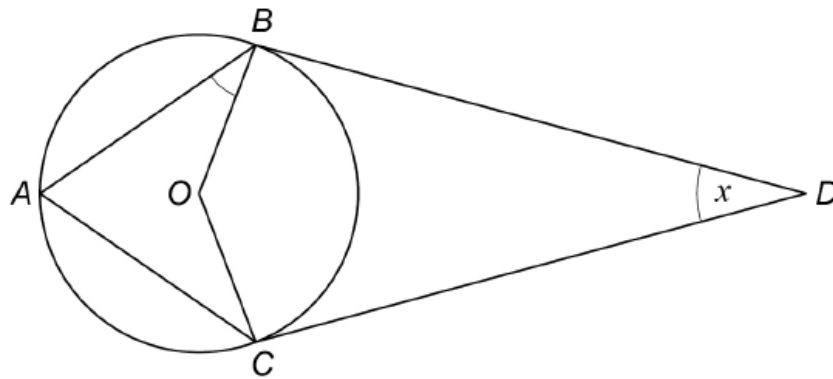
7. No.29

A , B and C are three points on the circumference of a circle, centre O .

BD and CD are tangents to the circle.

$ABDC$ is a kite.

Angle BDC is x



Not drawn
accurately

Prove that angle ABO is $45^\circ - \frac{x}{4}$
