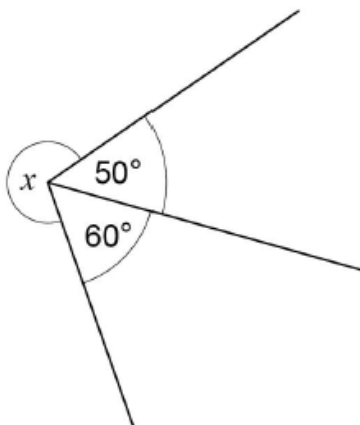


AQA – Geometry and measures – GCSE Mathematics Paper-21. **May/2020/Paper_2F/No.2**Not drawn
accuratelyCircle the size of angle x .

[1 mark]

70°

110°

250°

270°

2. **May/2020/Paper_2F/No.30**Work out the gradient of the straight line through $(-2, 3)$ and $(1, 9)$

[2 marks]

Answer _____

3. May/2020/Paper_2H/No.12

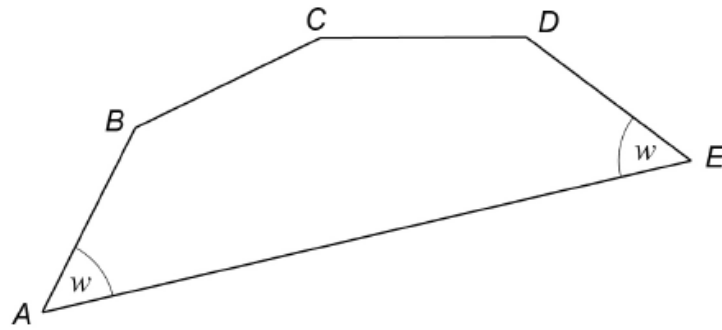
Work out the gradient of the straight line through $(-2, 3)$ and $(1, 9)$

[2 marks]

Answer _____

4. May/2020/Paper_2H/No.20

AB , BC , CD and DE are four of the sides of a regular decagon.



Not drawn
accurately

Work out the size of angle w .

[3 marks]

Answer _____ degrees

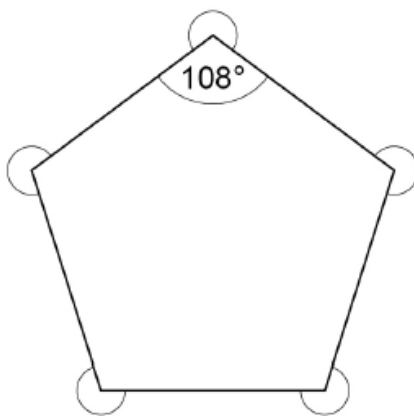
5. June/2019/Paper_2F/No.8

(a) The interior angle of a regular pentagon is 108°

Work out the sum of the five **reflex** angles at the vertices of a regular pentagon.

[3 marks]

Not drawn
accurately



Answer _____ degrees

Omar asks Harry,

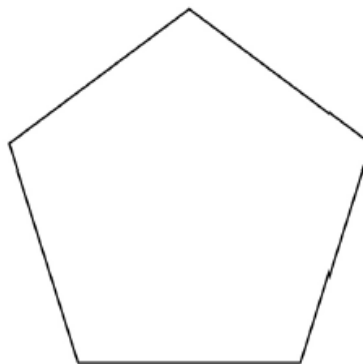
“How many lines of symmetry does a pentagon have?”

Harry assumes it is a regular pentagon.

His answer is 5.

- (b) Draw the lines of symmetry on this regular pentagon.

[1 mark]



- (c) Omar then says,

“What if the pentagon is **not** regular?”

For a pentagon that is **not** regular, what is true about the number of lines of symmetry?

Tick **one** box.

[1 mark]

There must be 0

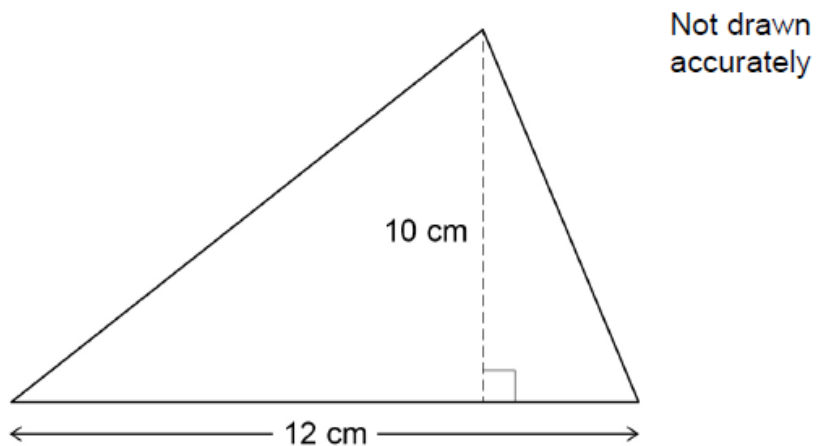
There could be 0 or 1

There could be 0, 1 or 2

There could be any number up to 5

6. June/2019/Paper_2F/No.18

A force of 180 newtons (N) is applied to the surface of this triangle.



Work out the pressure.

Use $\text{pressure} = \frac{\text{force}}{\text{area}}$

[3 marks]

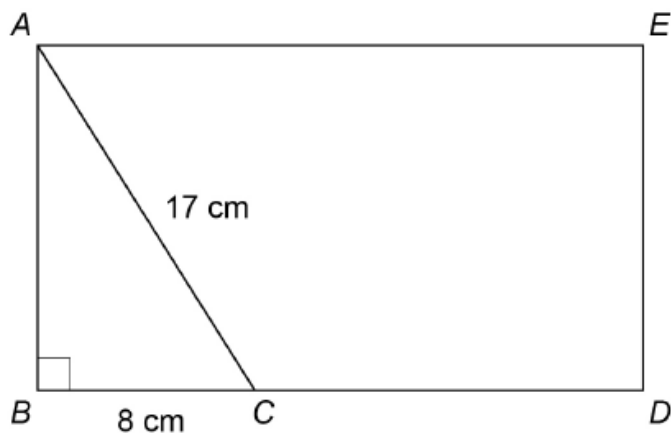
Answer _____ N/cm^2

7. June/2019/Paper_2F/No.22

The diagram shows rectangle $ABDE$ and right-angled triangle ABC .

$$AC = 17 \text{ cm}$$

$$BC = 8 \text{ cm}$$



Not drawn accurately

$$BC : CD = 1 : 2$$

Work out the area of rectangle $ABDE$.

[4 marks]

Answer _____ cm^2

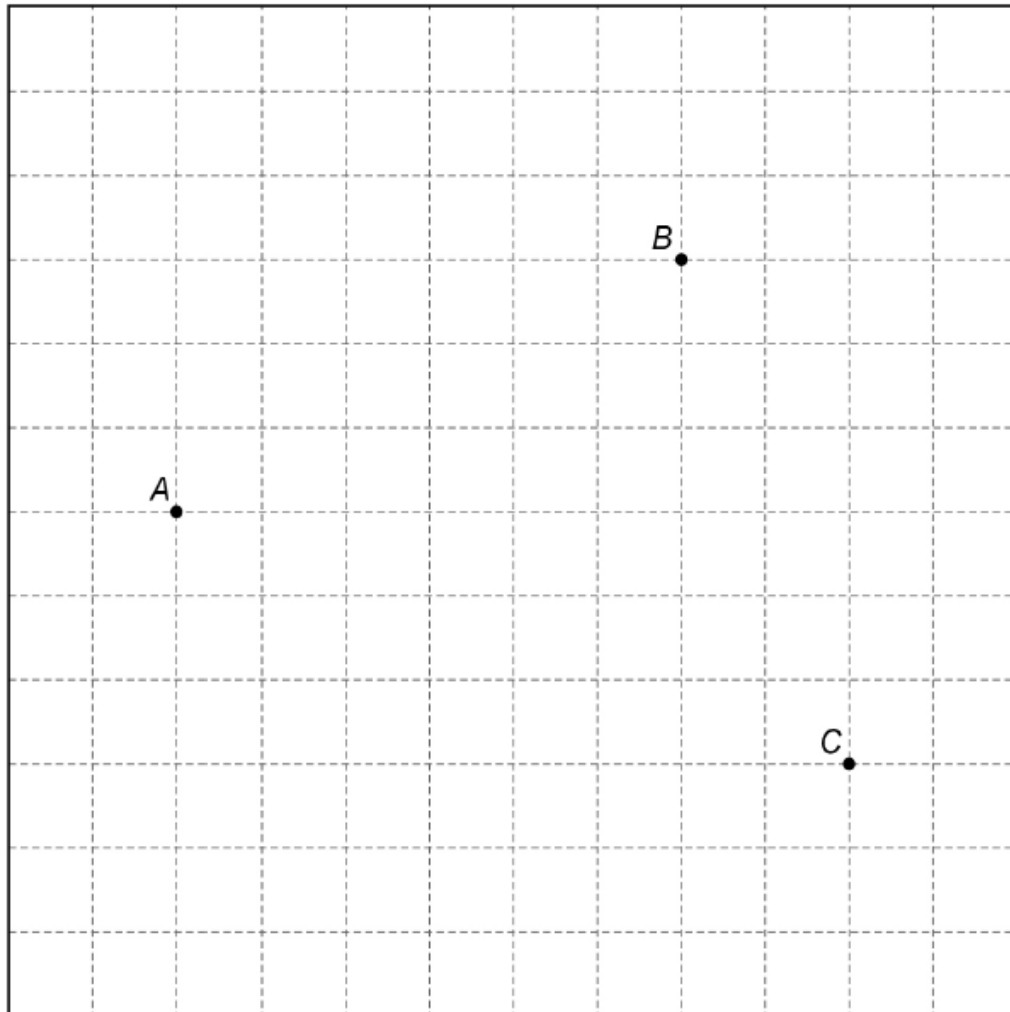
8. June/2019/Paper_2H/No.5

Using ruler and compasses, show the region inside the grid that is
less than 4 cm from A
and
nearer to B than to C .

Label the region R .

Show all your construction lines.

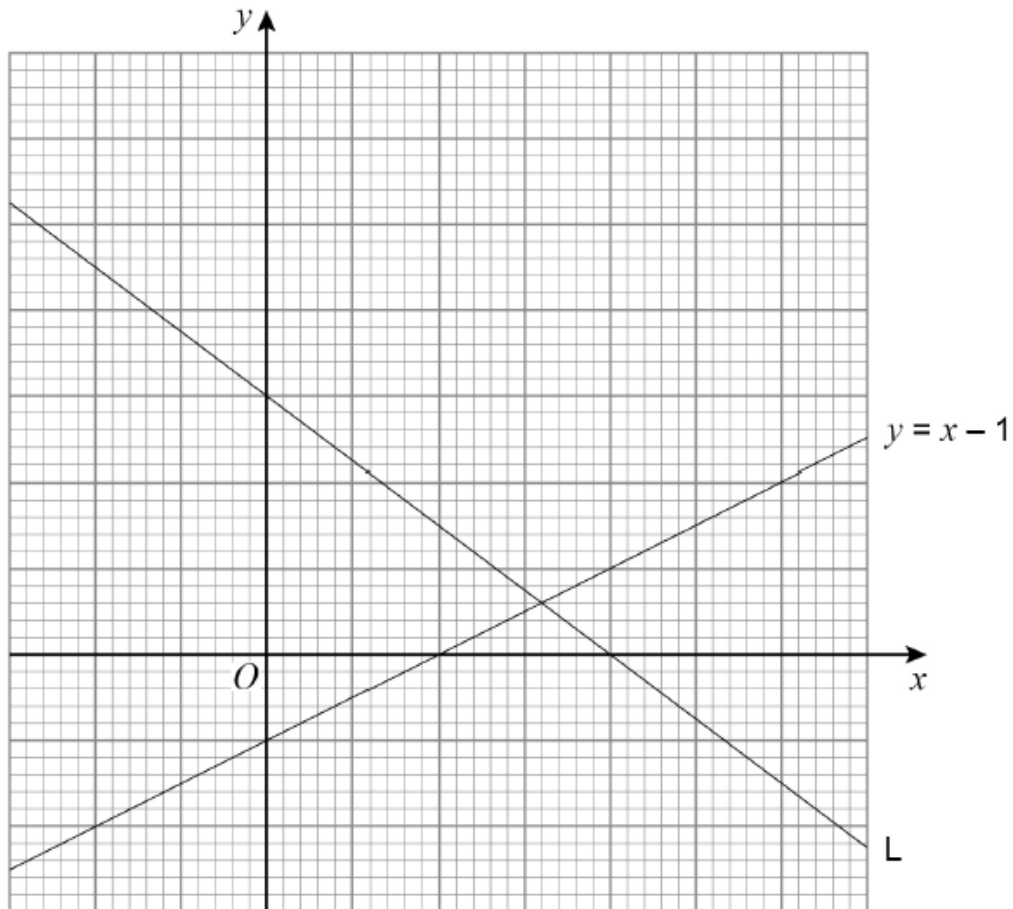
[3 marks]



9. June/2019/Paper_2H/No.15

Here is line L and the graph of $y = x - 1$

The scales of the axes are not shown.



Work out the equation of line L.

[4 marks]

Answer _____

10. Nov/2019/Paper_2F/No.28

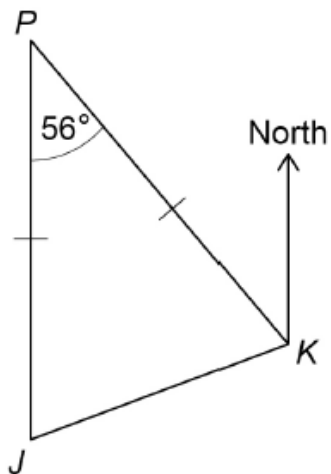
J and K are ships.

P is a port.

J is due South of P .

Angle $JPK = 56^\circ$

$JP = KP$



Not drawn
accurately

Work out the bearing of J from K .

[3 marks]

Answer _____^o

11. Nov/2019/Paper_2H/No.9

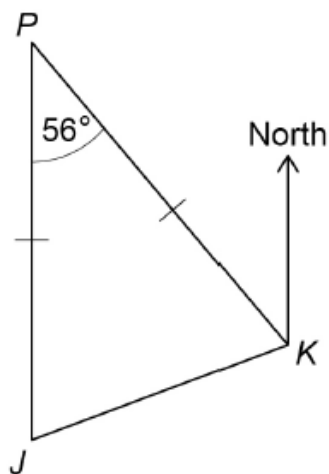
J and K are ships.

P is a port.

J is due South of P .

Angle $JPK = 56^\circ$

$JP = KP$



Not drawn
accurately

Work out the bearing of J from K .

[3 marks]

Answer _____ °

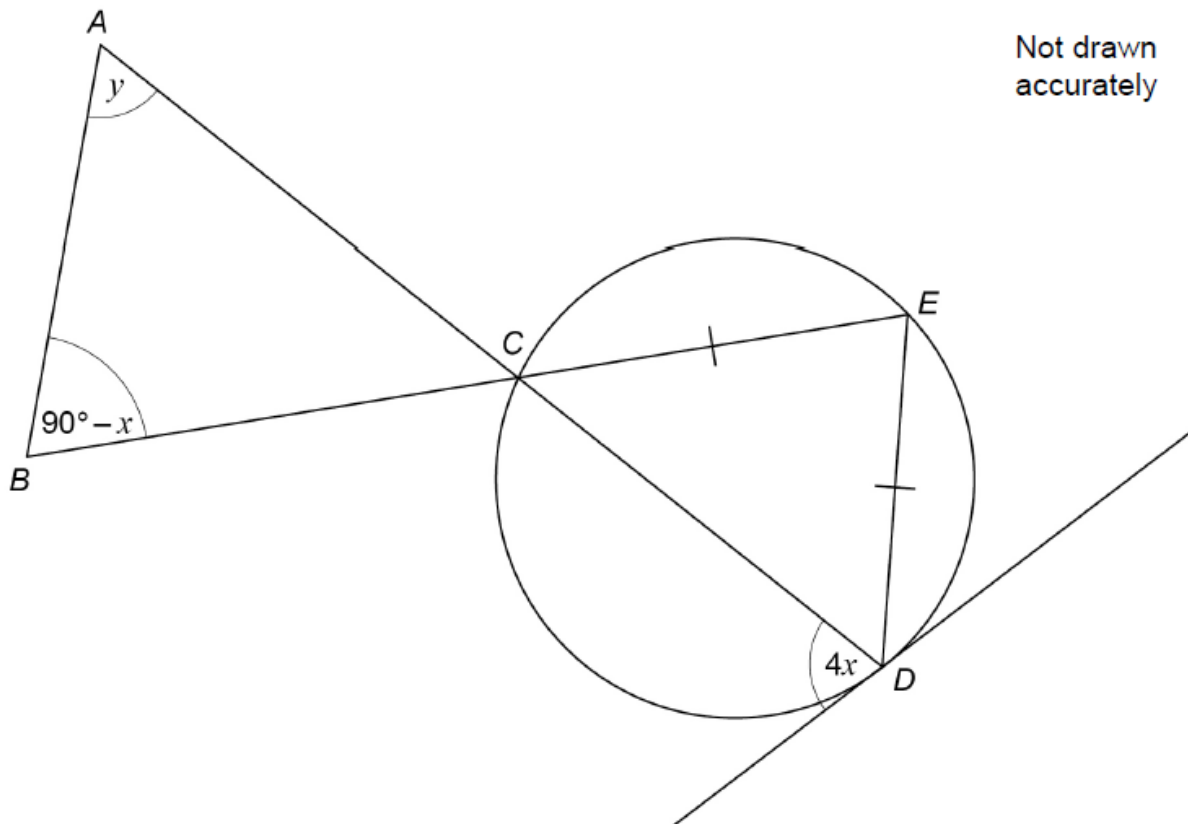
12. Nov/2019/Paper_2H/No.25

C, D and E are points on a circle.

$CE = DE$

The tangent at D is shown.

ACD and BCE are straight lines.



Prove that $y = 3x$

[4 marks]
