Edexcel GCSEMathematics (Linear) – 1MA0

ANGLES

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.

Items included with question papers Nil



Instructions

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on **each** question.

Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.

Keep an eye on the time.

Try to answer every question.

Check your answers if you have time at the end.

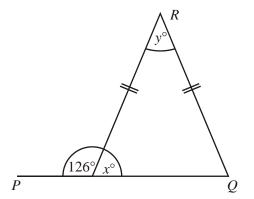


Diagram **NOT** accurately drawn

PQ is a straight line.

(a)	Work out	the	size	of the	angle	marked	x°

			°	(1)
(b)	(i)	Work out the size of the angle marked y° .		
			0	
	(ii)	Give reasons for your answer.		
			•••••	

2.

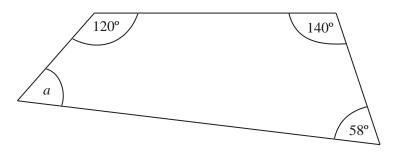


Diagram NOT accurately drawn

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W/ork	Out the	C170	of the	angle a.
WWOIN	Out the	317	OI UIC	angic a.

(2 marks

(3) (4 marks) 3.

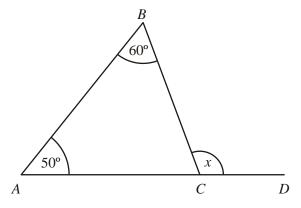


Diagram **NOT** accurately drawn

In the diagram, ABC is a triangle.

ACD is a straight line.

Angle $CAB = 50^{\circ}$.

Angle $ABC = 60^{\circ}$.

Work out the size of the angle marked x.

)
(2 marks)

4.

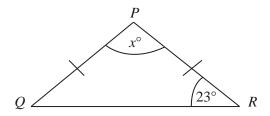


Diagram NOT accurately drawn

PQR is an isosceles triangle.

PQ = PR.

Angle $R = 23^{\circ}$.

Work out the value of *x*.

x =

(2 marks)

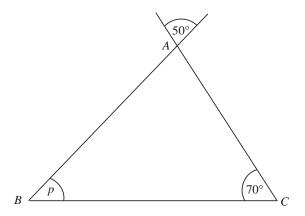


Diagram **NOT** accurately drawn

ABC is a triangle.

Work out the size of the angle marked p.

p =	0	
•		(2 marks)

6.

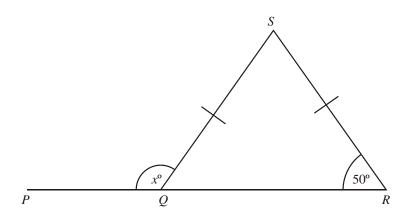


Diagram NOT accurately drawn

PQR is a straight line. SQ = SR.

(i)	Work out the	size of the	angle marked x°
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																										0	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

(ii	.) (Give reasons	for	your	answer
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(3 marks)

7.

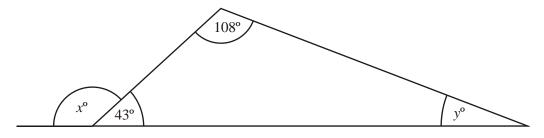


Diagram NOT accurately drawn

(a) Work out the value of x.

$$x = \dots$$
 (1)

(b) Work out the value of y.

$$y =$$
 (2) (3 marks)

8.

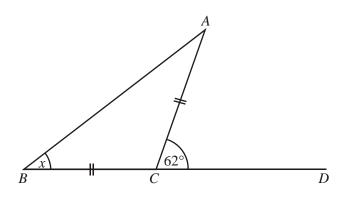


Diagram **NOT** accurately drawn

Triangle ABC is isosceles, with AC = BC.

Angle $ACD = 62^{\circ}$.

BCD is a straight line.

Work out the size of angle x.

$$x = \dots 0$$

(2 marks)

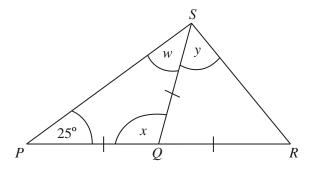


Diagram NOT accurately drawn

PQR is a straight line.

$$PQ = QS = QR$$
.

Angle $SPQ = 25^{\circ}$.

(a) (i) Write down the size of angle w.

.....

(ii) Work out the size of angle x.

......

(b) Work out the size of angle y.

.....

(2) (4 marks)

(2)

10.

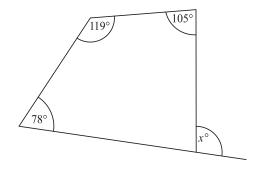
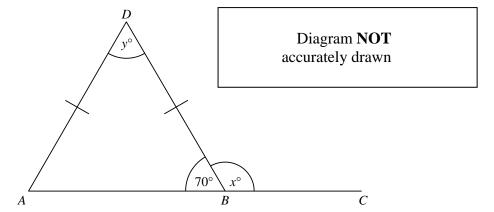


Diagram **NOT** accurately drawn

Work out the value of x.

 $x = \dots$

(3 marks)



ABD is a triangle. ABC is a straight line. Angle $ABD = 70^{\circ}$.

 $\overrightarrow{AD} = \overrightarrow{BD}$.

(a)	(i)	Work	out the	value	of x
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 $x = \dots$

(ii) Give a reason for your answer	(ii)	Give a	reason	for	your	answer
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(2)

(b) (i) Work out the value of y.

y =

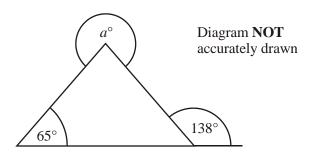
(ii) Give a reason for your answer.

.....

(5 marks)

(3)

<u>12.</u>



Work out the value of *a*.

a =

(3 marks)

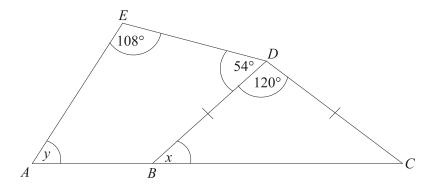


Diagram NOT accurately drawn

In the diagram, ABC is a straight line and BD = CD.

(a) Work out the size of angle x.

.....° (2)

(b) Work out the size of angle y.

.....0

(3) (5 marks)