

Please check the examination details below before entering your candidate information			
Candidate surname		Other names	
Centre Number		Candidate Number	
Pearson Edexcel Level 1/Level 2 GCSE (9–1)			
Thursday 14 May 2026			
Morning (Time: 1 hour 30 minutes)		Paper reference	1MA1/1H
Mathematics PAPER 1 (Non-Calculator) Higher Tier			
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.			Total Marks

Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **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.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

Answer ALL questions.

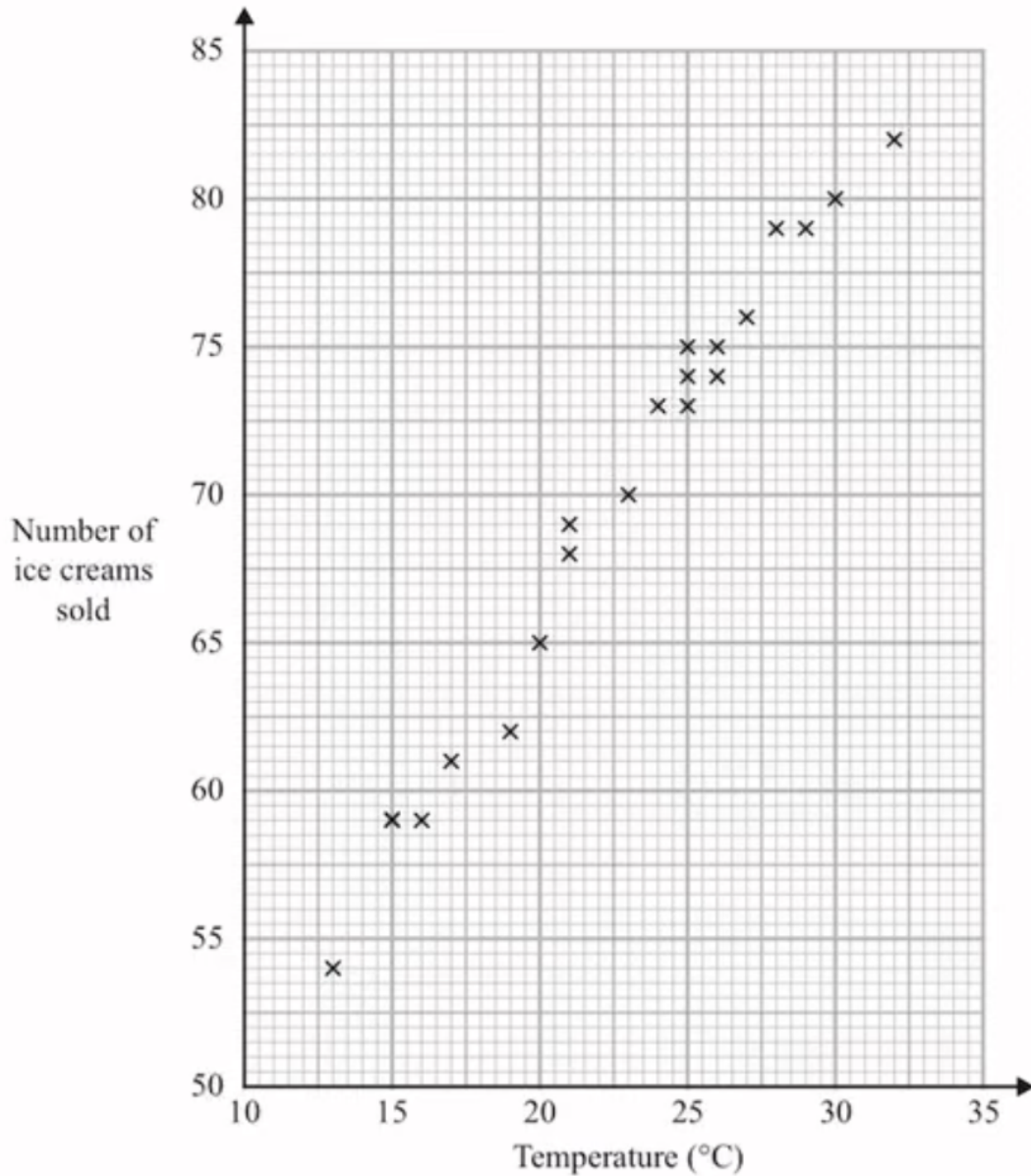
Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Work out 5.6×3.4

.....
(Total for Question 1 is 3 marks)

- 2 The scatter graph shows information about the number of ice creams sold in a cafe and the temperature on each of 20 days.



- (a) Describe the relationship between the number of ice creams sold and the temperature.

(1)

On a different day, the cafe sold 71 ice creams.

- (b) Using the scatter graph, estimate the temperature on that day.

(2)

(Total for Question 2 is 3 marks)

- 3 In a bag there are only blue counters, green counters, red counters and yellow counters.
A counter is taken at random from the bag.

The table shows the probability of taking each colour of counter.

Colour	blue	green	red	yellow
Probability	0.3	0.4	0.1	0.2

- (a) Work out the probability of taking a counter that is **not** green.

.....
(1)

There are 90 blue counters in the bag.

- (b) Work out the total number of counters in the bag.

.....
(2)

Hannah has a biased coin.
She throws the coin 10 times.
The coin lands on heads 7 times.

Hannah estimates the probability that the coin lands on heads as $\frac{7}{10}$

- (c) Explain what Hannah could do differently to find a better estimate for the probability that the coin lands on heads.

.....
.....
.....
(1)

(Total for Question 3 is 4 marks)

4 Here are the first five terms of an arithmetic sequence.

5 12 19 26 33

(a) Find an expression, in terms of n , for the n th term of this sequence.

(2)

The n th term of a different sequence is $3 - 5n$

(b) Show that -42 is a term of this sequence.

(2)

(Total for Question 4 is 4 marks)

5 3 workers take 15 hours to build 1 wall.

(a) How many hours will 5 workers take to build 4 of these walls?

..... hours
(3)

(b) State one assumption you made in working out your answer to part (a).

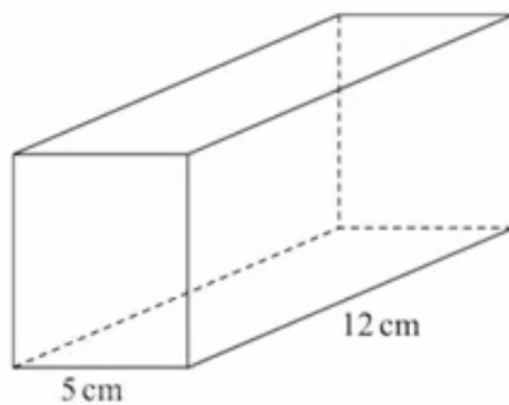
.....
.....
.....
.....
(1)

(Total for Question 5 is 4 marks)

6 Solve $x^2 - 12x - 28 = 0$

.....
(Total for Question 6 is 3 marks)

- 7 The diagram shows a solid cuboid.



The cuboid has a total ~~surface~~ area of 324 cm^2

Work out the volume of the cuboid.

You must show all your working.

- 8 Lee buys a car for £7500
He sells the same car for £9000
Work out Lee's percentage profit.

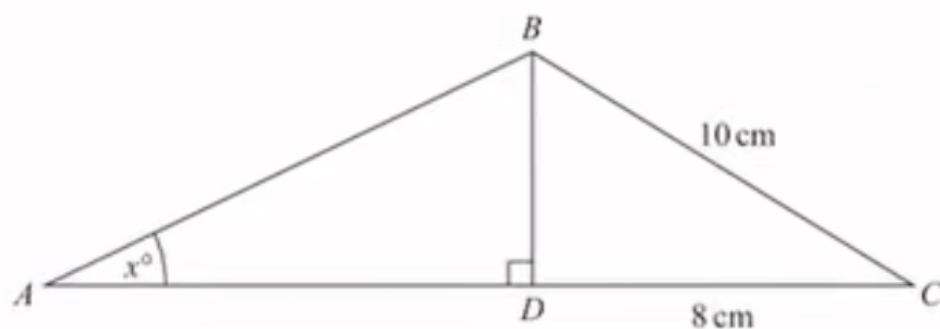
.....%

(Total for Question 8 is 3 marks)

- 9 (a) Write down the value of $\sin 30^\circ$

(1)

The diagram shows two right-angled triangles, ABD and BCD .



ADC is a straight line.

$$AC = 21\text{ cm}$$

- (b) Work out the value of $\tan x^\circ$

10 Aaran has some cards.

The cards are square or circular or triangular.

$$\begin{array}{ccccc} \text{number of} & & \text{number of} & & \text{number of} \\ \text{square cards} & : & \text{circular cards} & : & \text{triangular cards} \end{array} = 4 : 3 : 5$$

All of the square cards have a picture on them.

60% of the circular cards have a picture on them.

$\frac{2}{5}$ of the triangular cards have a picture on them.

Work out the fraction of the cards that have a picture on them.

.....
(Total for Question 10 is 4 marks)

11 (a) Simplify $\frac{24x^8y^5}{6xy^2}$

(2)

Florrie is asked to solve the equation $\frac{4x-5}{6} + \frac{x+5}{3} = 9$

Here is her working.

$$\begin{aligned}\frac{4x-5}{6} + \frac{x+5}{3} &= 9 \\ \frac{4x-5}{6} + \frac{2x+5}{6} &= 9 \\ \frac{6x}{6} &= 9 \\ x &= 9\end{aligned}$$

Florrie's answer is wrong.

(b) What mistake has she made?

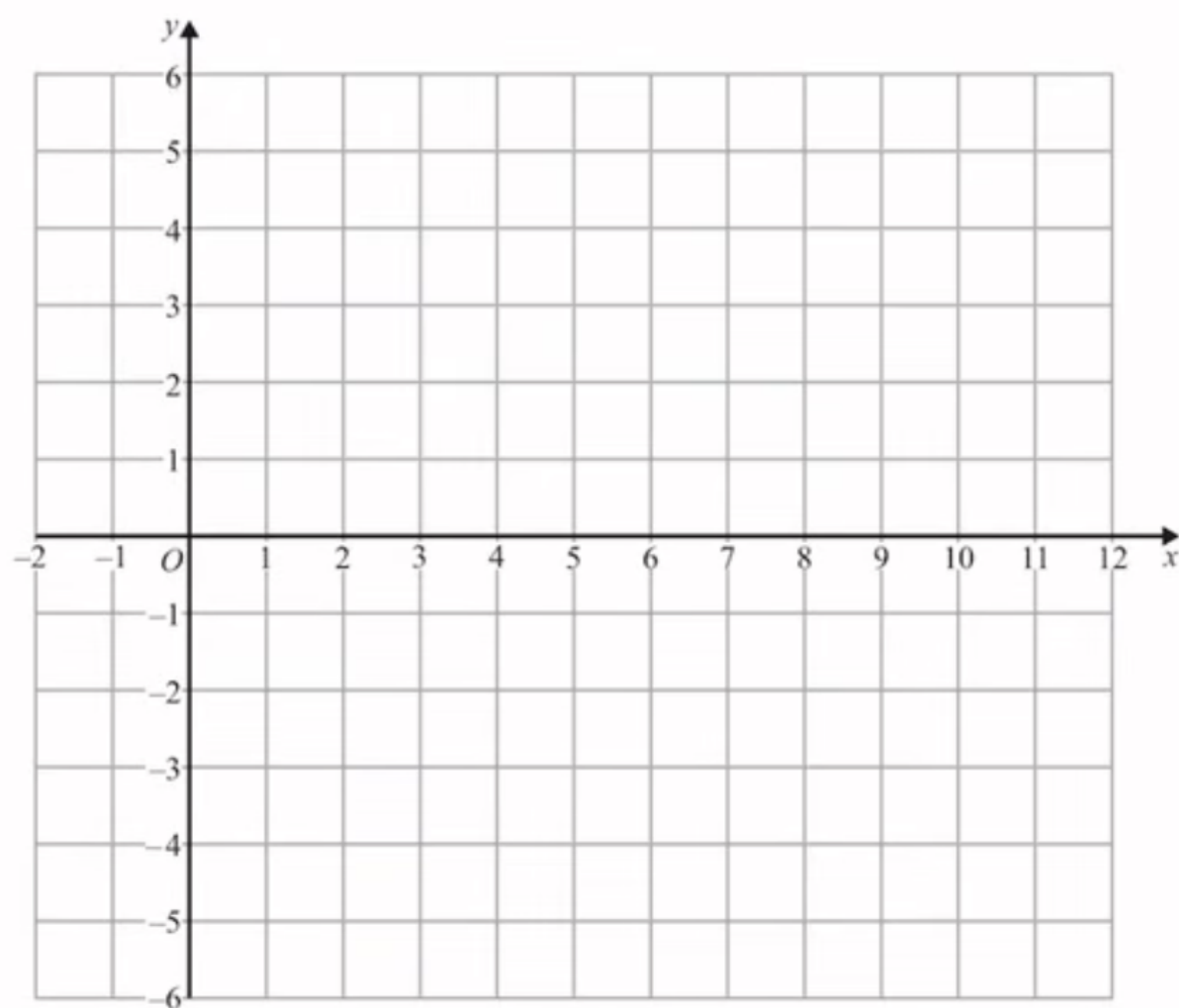
(1)

(Total for Question 11 is 3 marks)

12 On the grid, show by shading, the region that satisfies all of these inequalities.

$$y > 4 - 2x \quad 2y - x > -2 \quad y < 4$$

Label the region **R**.



(Total for Question 12 is 3 marks)

- 13** Express $0.3\dot{4}\dot{6}$ as a fraction.
You must show all your working.

.....

(Total for Question 13 is 3 marks)

**A****B**

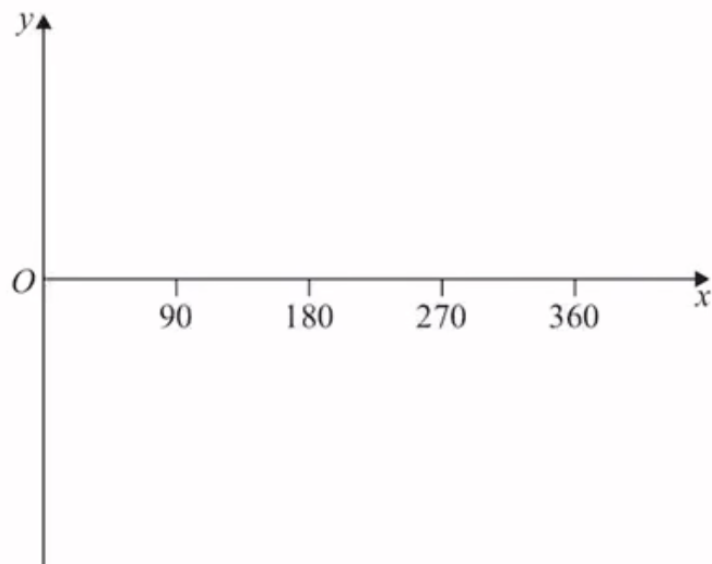
A and **B** are two similar containers.
Both containers are empty.

Container **A** has a surface area of 40 cm^2
Container **B** has a surface area of 90 cm^2

A tap is flowing at a constant rate.
The tap takes 48 seconds to fill container **A**.

How long will the tap take to fill container **B**?

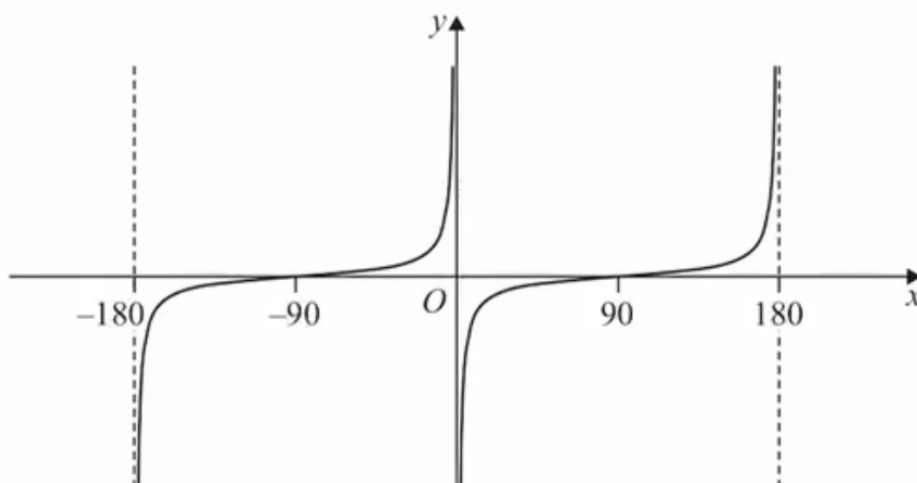
15 (a) Sketch the graph of $y = \sin x^\circ$ for $0 \leq x \leq 360$



(2)

Azra needs to sketch the graph of $y = \tan x^\circ$ for $-180 \leq x \leq 180$

Here is her sketch.



Azra's sketch is wrong.

(b) Explain why.

- 16 Show that $(x + 3)(2x - 1)(3x + 4)$ can be written in the form $ax^3 + bx^2 + cx + d$ where a, b, c and d are integers.

(Total for Question 16 is 3 marks)

- 17 By completing the square, find the coordinates of the turning point of the curve with equation $y = x^2 + 8x + 22$
You must show all your working.

(.....,)

(Total for Question 17 is 3 marks)

18 At the end of month n , the profit, in £, made by a company was P_n

At the end of the next month, the profit made by the company was P_{n+1} where

$$P_{n+1} = kP_n$$

At the end of August the profit was £25 000

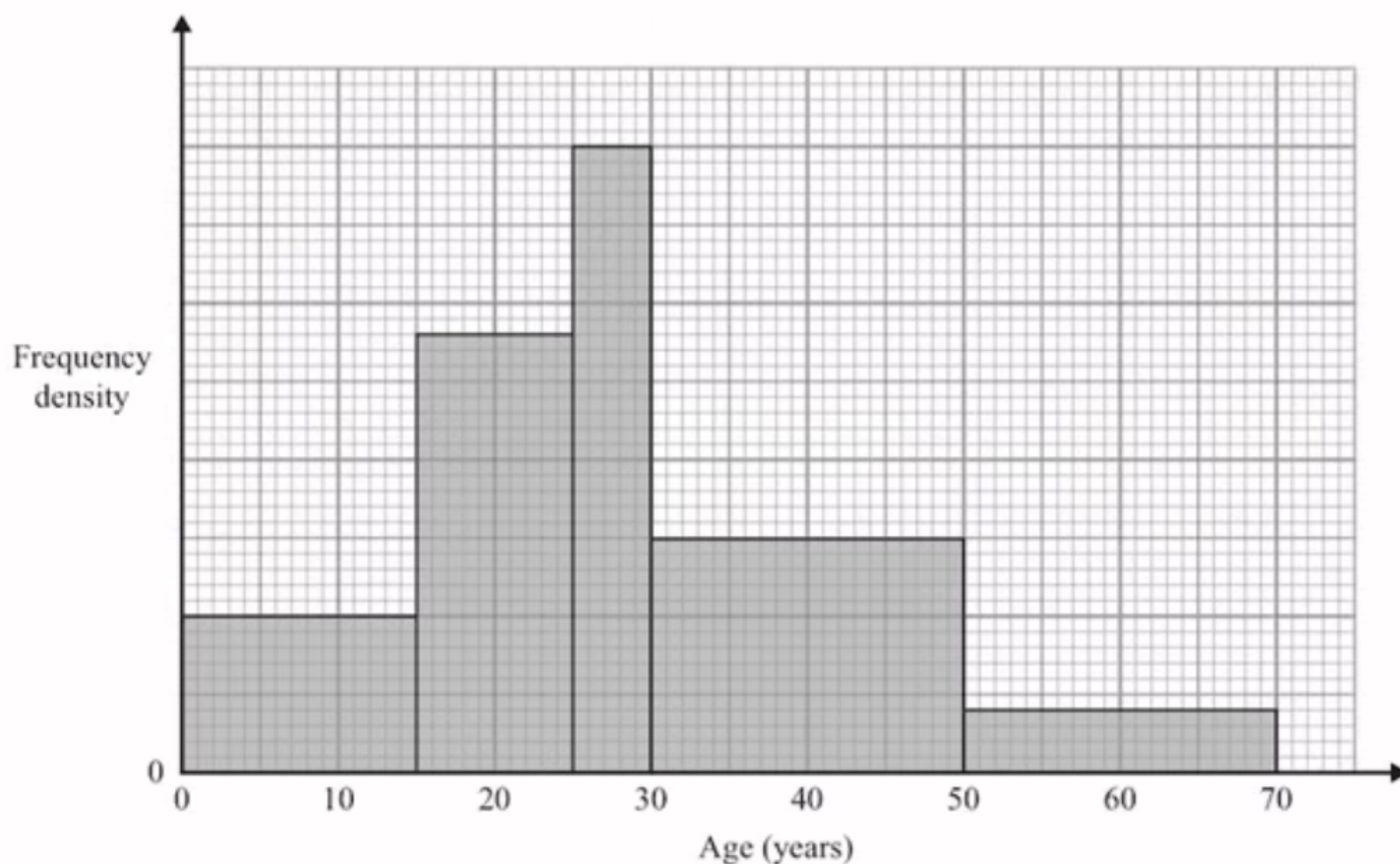
At the end of October the profit was £36 000

Find the value of the constant k .

$k =$

(Total for Question 18 is 3 marks)

19 The histogram shows information about the ages of all the people at a concert.

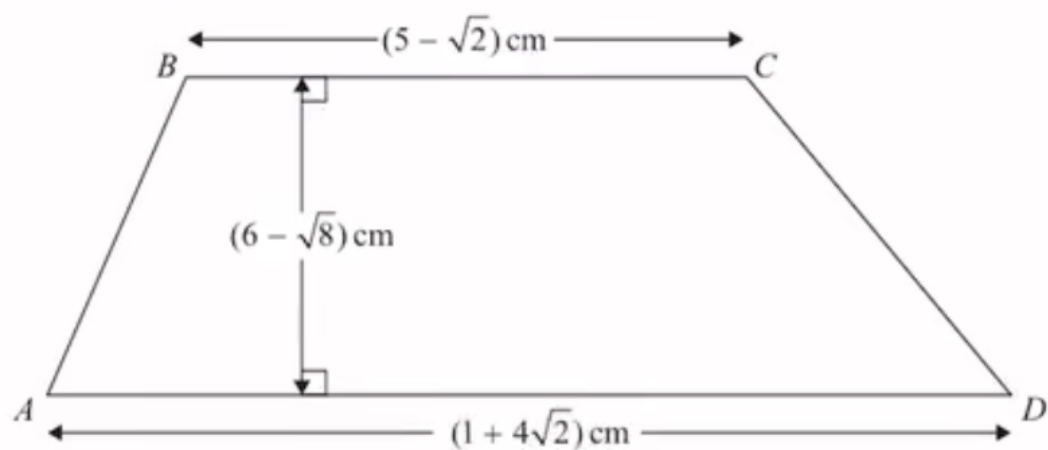


The number of people aged between 25 and 30 was 10 more than the number of people aged between 0 and 15

Work out the total number of people at the concert.

(Total for Question 19 is 4 marks)

20 The diagram shows trapezium $ABCD$.



Work out the area of the trapezium.

Give your answer in the form $a + b\sqrt{2}$ where a and b are integers.

You must show all your working.

..... cm^2

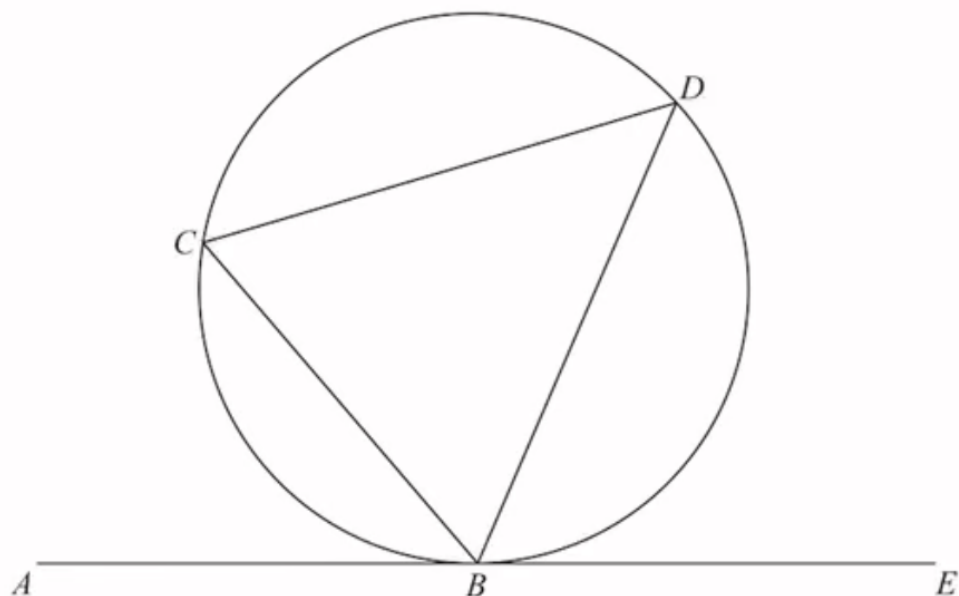
(Total for Question 20 is 5 marks)

21 Find algebraically the set of values of x for which

$$4x^2 + 27x - 7 > 0 \quad \text{and} \quad x^2 > 25$$

.....

(Total for Question 21 is 4 marks)



B , C and D are points on a circle.

ABE is the tangent to the circle at B .

Prove that $\text{angle } ABC = \text{angle } BDC$.

You may use any circle theorem except the Alternate Segment Theorem.

(Total for Question 22 is 4 marks)

TOTAL FOR PAPER IS 80 MARKS