4.10 Angles in Parallel Lines: 10-minute Pack

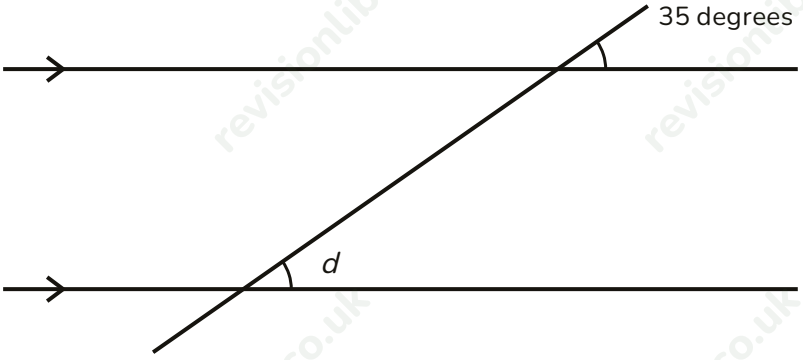
EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A pair of parallel lines is cut by a transversal. Angle d is corresponding to a given angle of 35 degrees. Work out angle d.



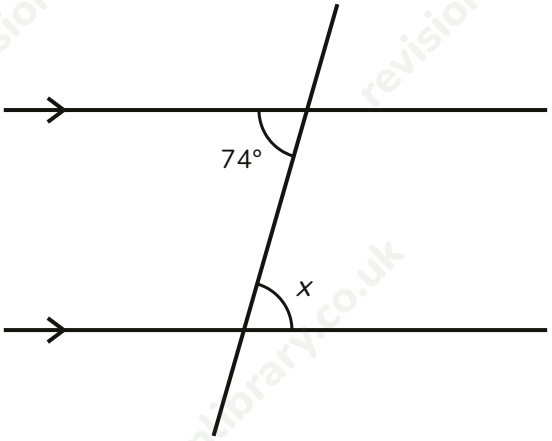
(a) Work out the size of angle d. **(2)**

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(Total for Question 1 is 2 marks)

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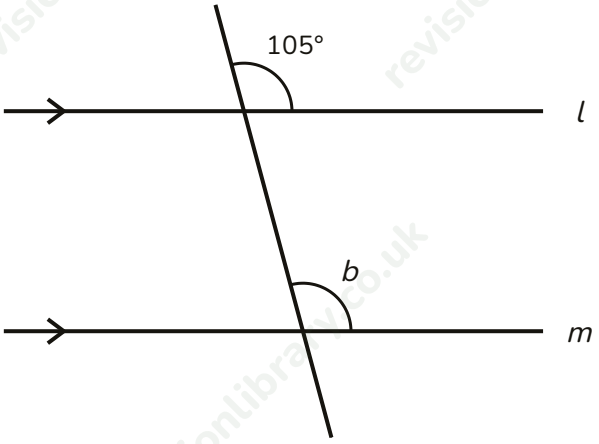
2 The diagram shows a Z-shape formed between two parallel lines: angle x and a 74 degree angle are alternate angles. Write down the size of angle x.



(Total for Question 2 is 1 mark)

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3 Lines l and m are parallel. A transversal crosses l and m. At the intersection with l, one of the angles formed is 105 degrees. Angle b, at the intersection with m, is in the corresponding position to the 105 degree angle. Work out the size of angle b and give a reason for your answer.

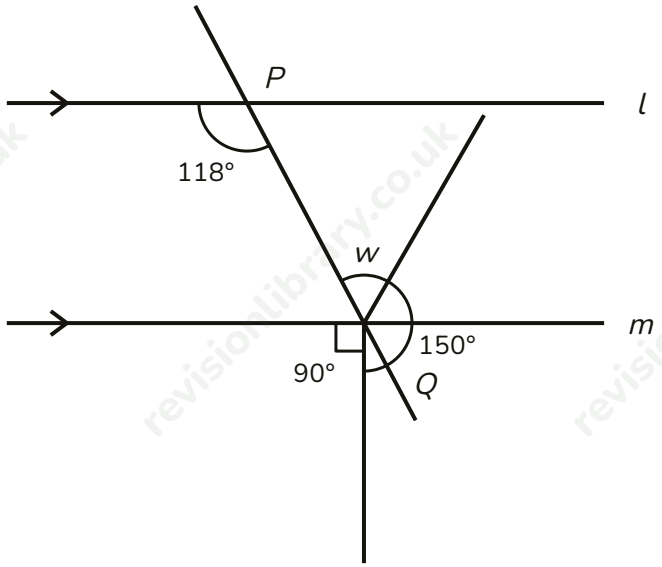


(Total for Question 3 is 2 marks)

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4 Lines l and m are parallel. A transversal crosses l at P and m at Q, and the angle between the transversal and l is 118 degrees. At Q, three further angles going all the way around the point are marked 90 degrees, 150 degrees and w, in addition to the angle co-interior to the 118 degree angle. Work out the size of angle w.

Diagram NOT accurately drawn



(Total for Question 4 is 3 marks)

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Mark scheme · 4.10 Angles in Parallel Lines: 10-minute Pack

Question 1

(a) identify corresponding angles are equal or state d = 35 degrees **B1**

(a) final answer 35 degrees cao **B1**

(a) Answer: 35 degrees

Question 2

x = 74 cao **B1**

Answer: x = 74 degrees

Question 3

b = 105 cao **B1**

correct reason: corresponding angles are equal (oe, since l is parallel to m) **B1**

Answer: b = 105 degrees

Question 4

co-interior angle = 180 - 118 = 62 **M1**

360 - 62 - 90 - 150 (angles around a point sum to 360) **M1**

w = 58 cao **A1**

Answer: w = 58 degrees

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