



Education Consultancy

Edexcel GCSE Mathematics ANGLES: PARALLEL LINES

Materials Required:

- Pen - HB Pencil - Ruler (in centimetres and millimetres) - Protractor

- Compass

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question

- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

Use a black ink pen to answer all questions
Fill your name in the section below
Answer the questions in the spaces provided
Show your working out for all answers

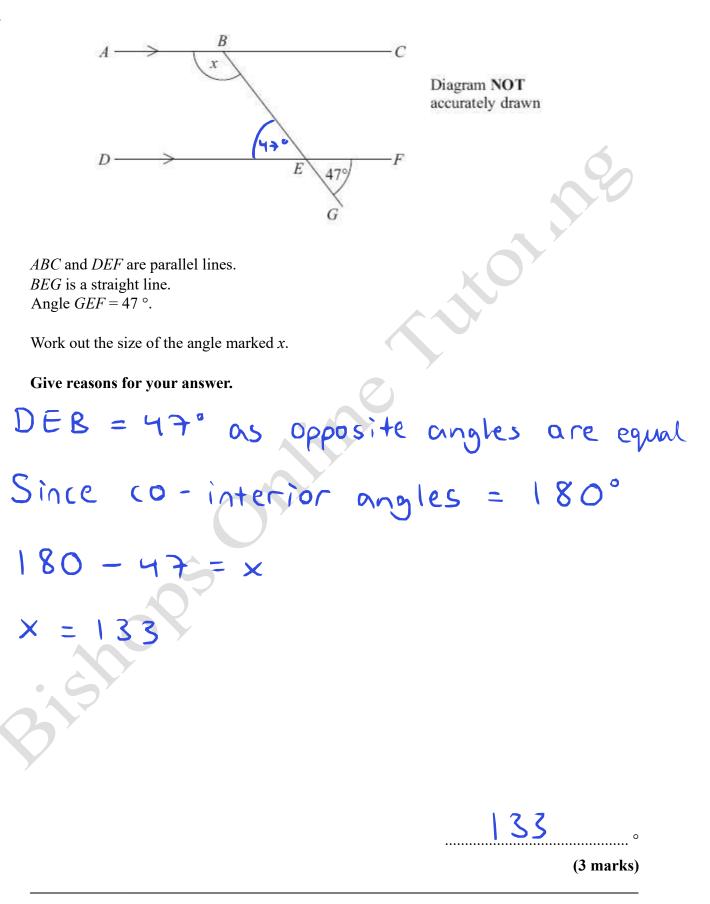
Advice:

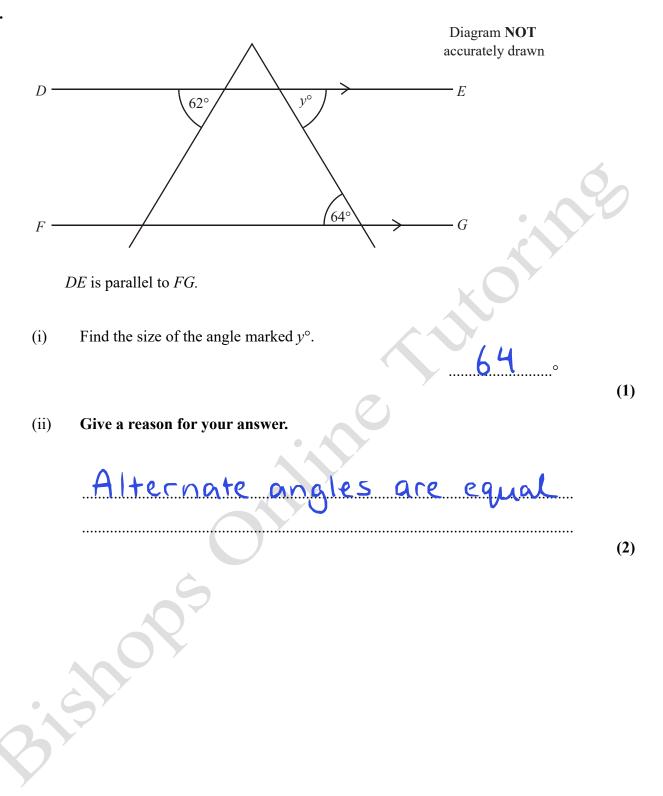
- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

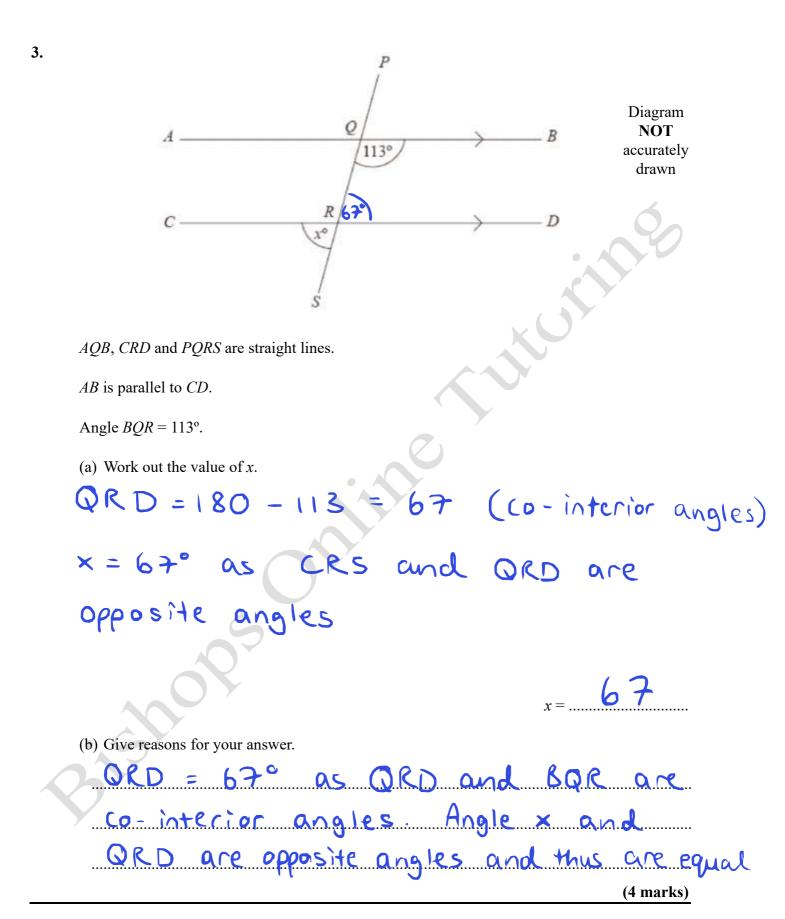
NAME:

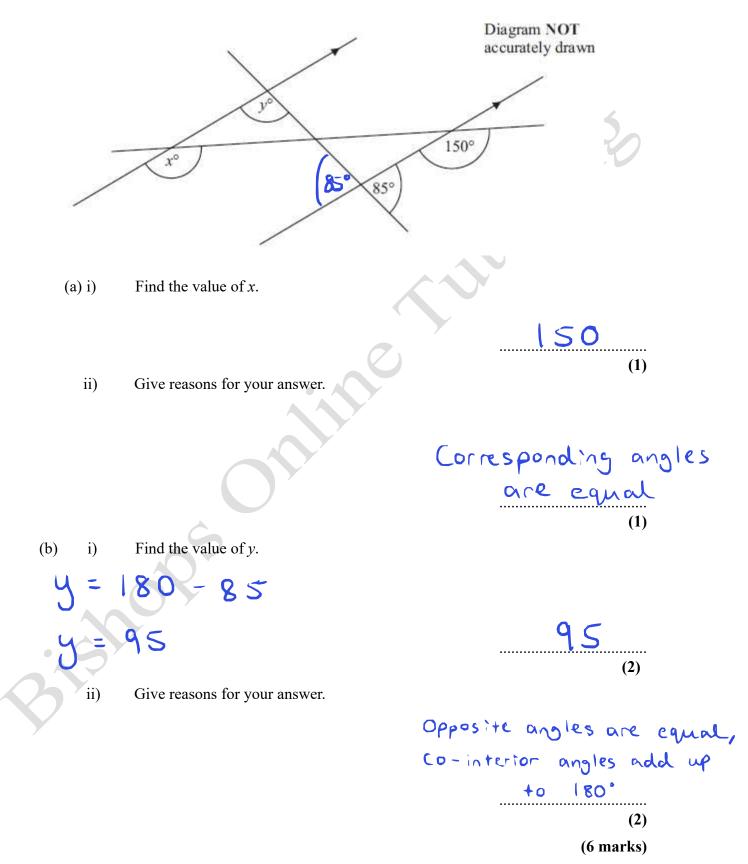






(3 marks)



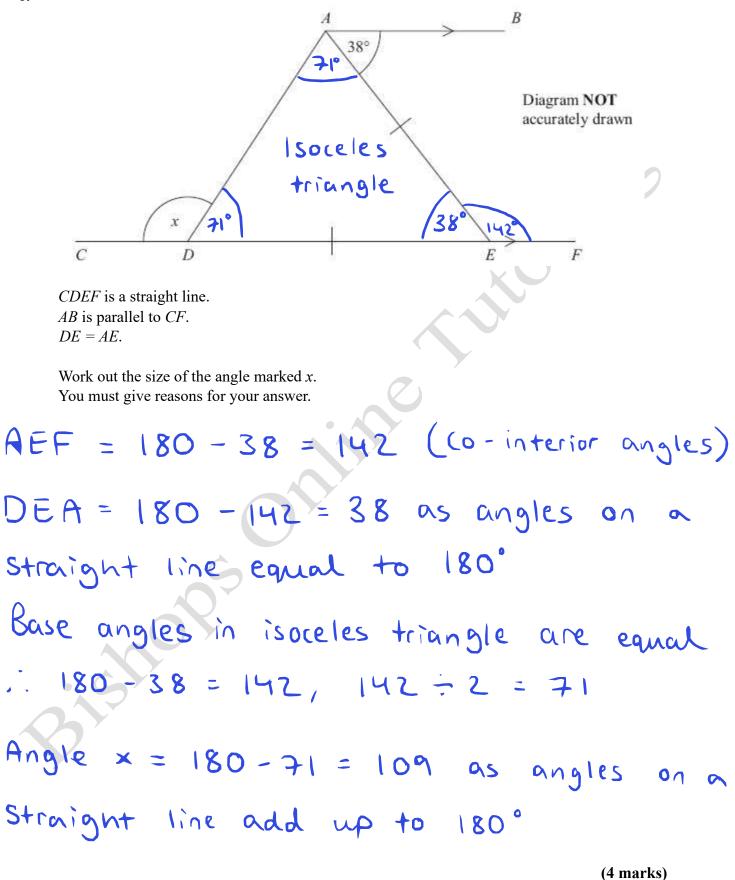


Angles in a triangle = 180°

Diagram NOT accurately drawn 22° 120° 41° 131 380 x ABCD is a parallelogram. Angle $ADB = 38^{\circ}$. Angle $BEC = 41^{\circ}$. Angle $DAB = 120^{\circ}$. Calculate the size of angle *x*. You must give reasons for your answer. ABD = 22° as angles in a triangle add up to 180° 180 -158 = 2738 + 120 = 158, CDB = ABD as they're opposite angles and thus equal DEC = 139 as angles on a straight line equal to 180° 180 = 139 161 = Anale 180

(4 marks)

*5.



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C Diagram NOT accurately drawn G B ABC and DEFG are parallel. AEH and BFH are straight lines. Work out the size of the angle marked x° . alternate angles are equal GFM 53° as as opposite angles are equal $GEH = 28^{\circ}$ DFH = 180 - 53 = 1220,5 angles on Straight line add up to 180° Angles triangle = 180° G 127-78 = 25

x=25 (3 marks)

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*7.