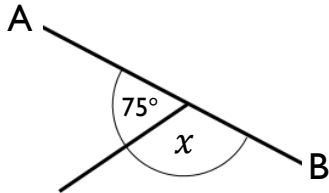


Name _____

- 1 AB is a straight line.



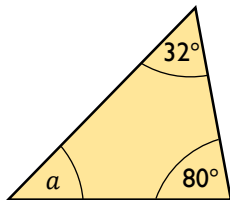
Work out the value of the angle labelled x .

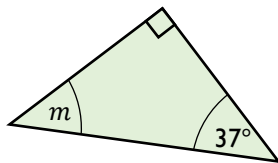
Give a reason for your answer.



2 marks

- 2 Work out the size of the missing angle in each triangle.

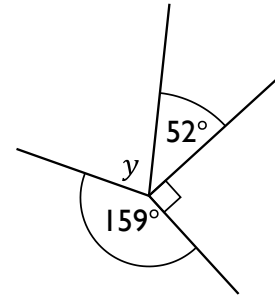






2 marks

- 3 Jack writes the following calculation to find y .



$$159 + 52 = 211$$

$$360 - 211 = 149$$

$$y = 149^\circ$$

Explain why Jack is wrong.



1 mark

Work out the correct value of y .



1 mark

- 4 One angle in an isosceles triangle is 50°
What could the size of the other two angles be?
Give two possible answers.

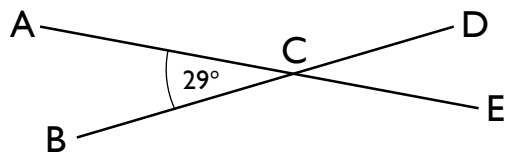
Solution 1: _____ and _____

Solution 2: _____ and _____



2 marks

- 5 The straight line segments AE and BD cross at the point C.



Complete the sentence using a word or words from the box.

perpendicular parallel vertically opposite

$\angle ACD$ and $\angle BCE$ are _____

1 mark

What is the size of $\angle DCE$?

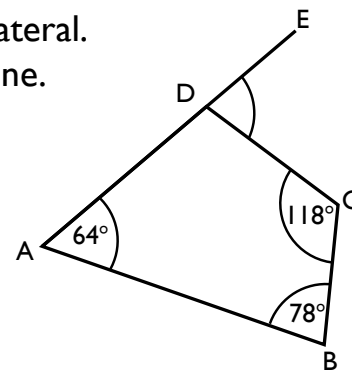
1 mark

- 6 A triangle has the following three angles: a , $2a$ and $3a$.

Form and solve an equation to find the size of the **largest** angle in the triangle.

3 marks

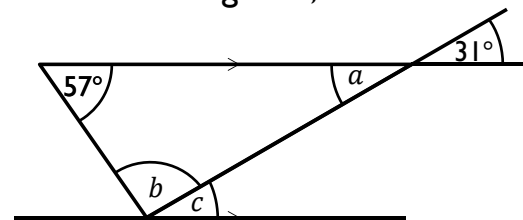
- 7 ABCD is a quadrilateral. ADE is a straight line.



Work out the value of angle CDE.

2 marks

- 8 Calculate the size of angles a , b and c .



$a =$ _____ $b =$ _____ $c =$ _____

3 marks

- 9 What is the size of each angle in a regular hexagon?

H

2 marks

Total marks

A