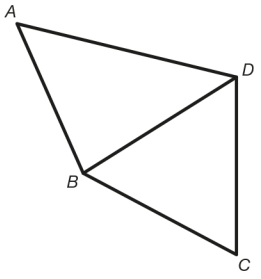
Using the properties of angles

SNAPIT! Properties of angles

Angles on a straight line always add up to 180°.

Angles in a triangle always add up to 180°.

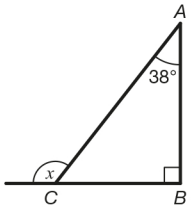
Quadrilaterals can always be divided into two triangles. Therefore, angles in a quadrilateral always add up to $2 \times 180° = 360°$



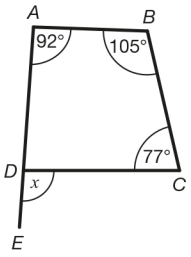
1 Work out the size of the angles marked x in the diagrams.

You must show your working. (★)

a (2 marks)



b (2 marks)



State the size of an angle and then give a reason.

For example, angle $a = 46°$ (Angles on a straight line add up to 180°)

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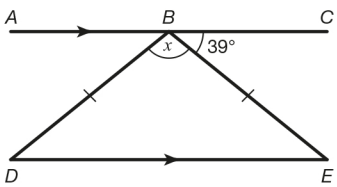
[Total: 4 marks]

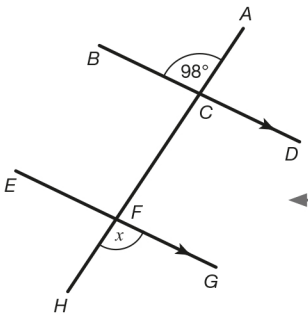
2 Work out the size of the angles marked x in the diagrams.

You must show your working. (★★★)

a (2 marks)



b (2 marks)



Look for equal angles. For example, base angles of an isosceles triangle are equal; corresponding angles are equal; vertically opposite angles are equal; alternate angles are equal.

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[Total: 4 marks]