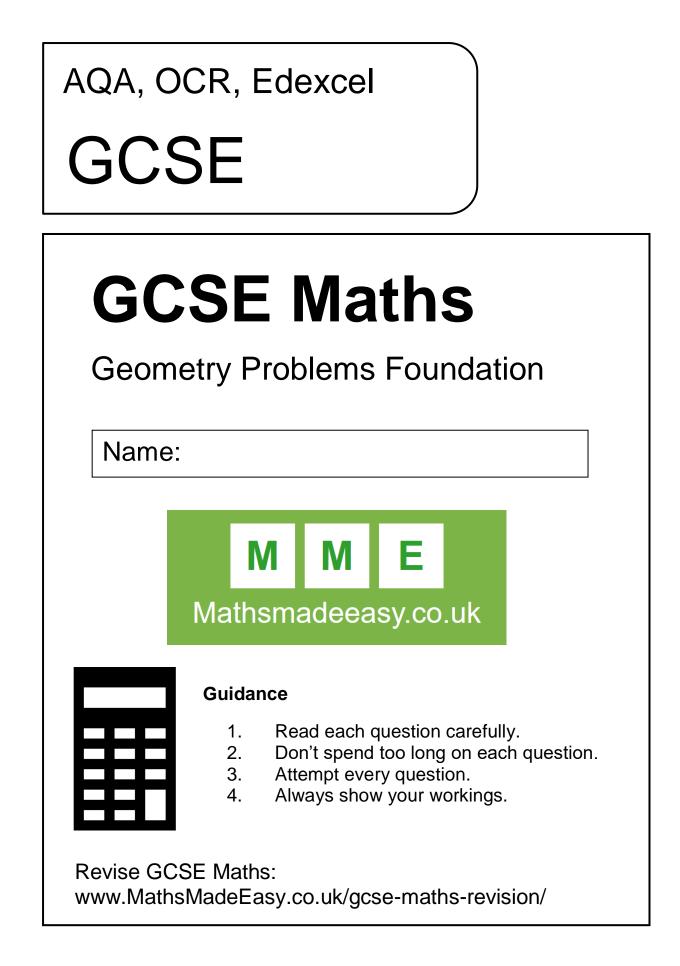
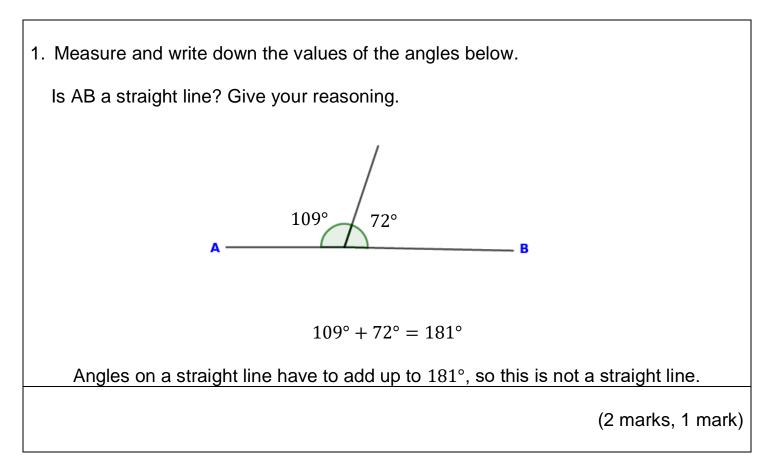
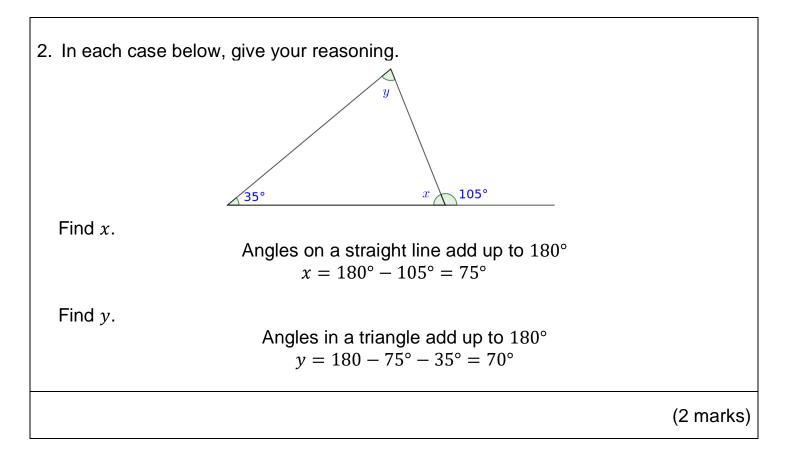
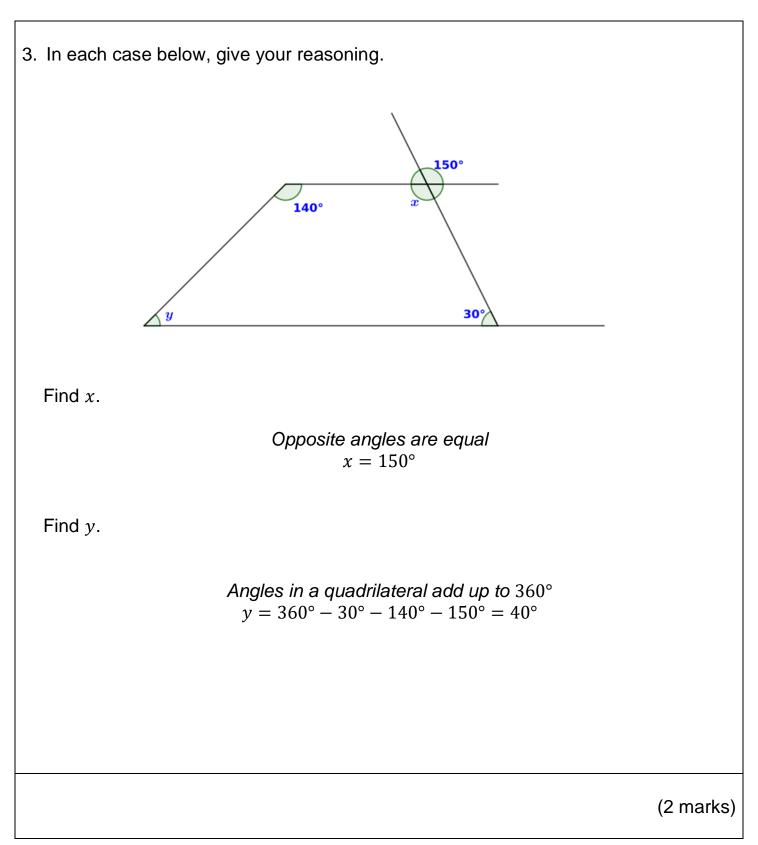
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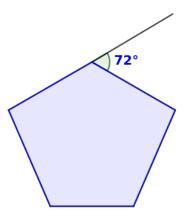








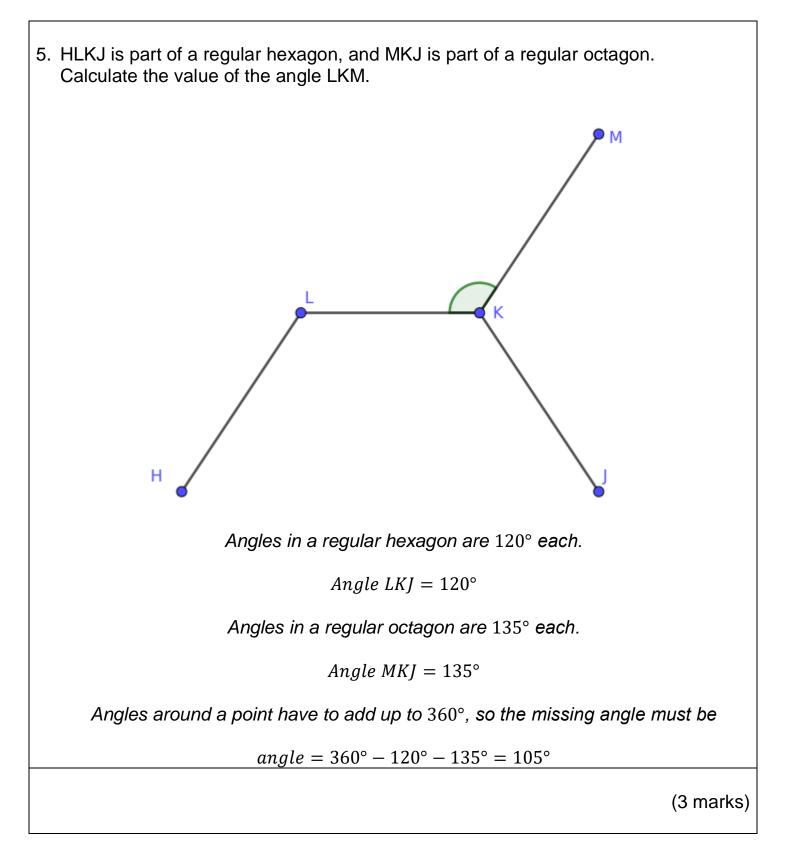
 Given that all external angles of the pentagon are equal, is it regular? You must explain your answer. The diagram is not drawn to scale.

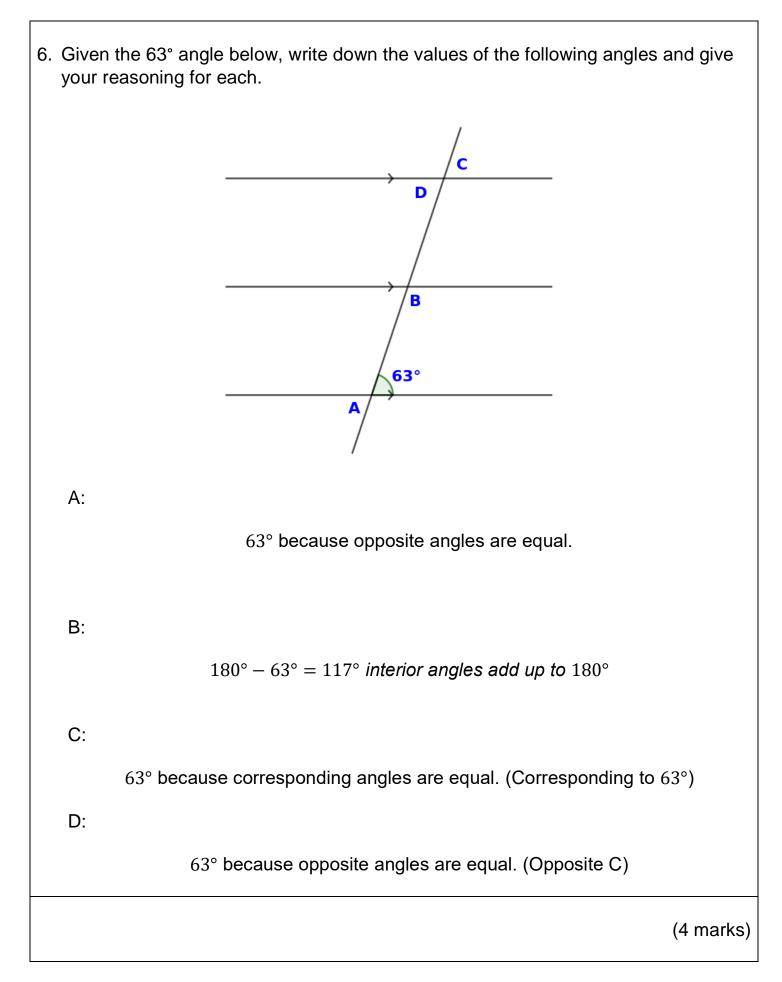


 $72^{\circ} \times 5 = 360^{\circ}$ All external angles have to add up to  $360^{\circ}$ , so must be regular.

Alternatively, all internal angles are  $180^{\circ} - 72^{\circ} = 108^{\circ}$ Internal angles of a pentagon are  $108^{\circ}$ , so must be regular.

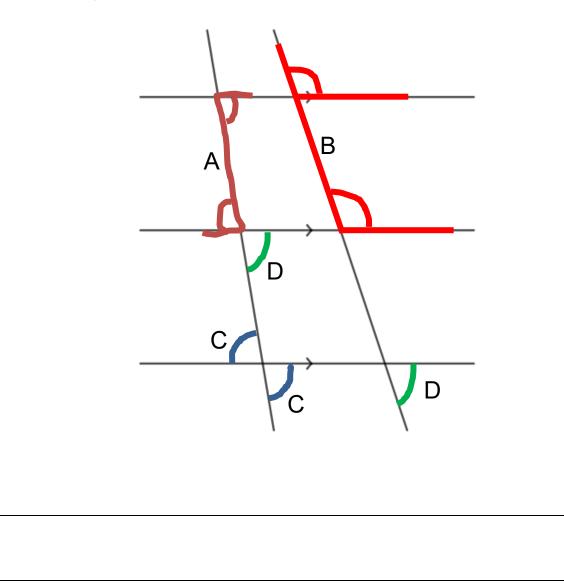
(2 marks)





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- 7. On the diagram below, mark the following angles:
  - A pair of alternate angles with the letter A
  - A pair of corresponding angles with the letter B
  - Two vertically opposite angles with the letter C
  - Two angles that are not directly related with the letter D



(5 marks)

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