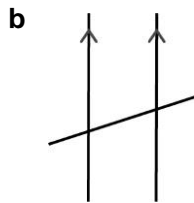
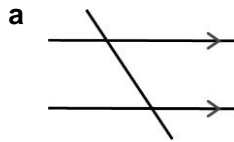


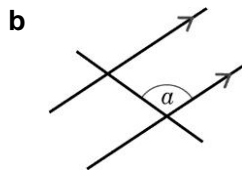
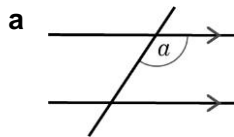
## Alternate angles

### Support

1 Draw a 'Z' and mark a pair of alternate angles on each diagram.

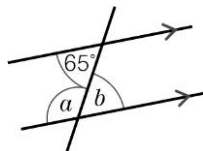


2 Draw a 'Z' to find the alternate angle to angle  $a$ , then mark it and label it  $b$  on the diagram.



### Core

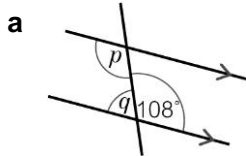
3 Write the sizes of the angles marked with letters. Give a reason for each answer.



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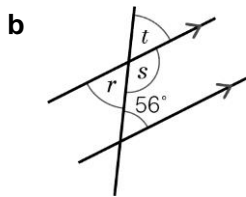
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4 Write the sizes of the angles marked with letters.  
Give a reason for each answer.



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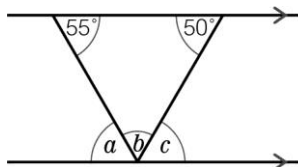


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5 Write the sizes of the angles marked with letters.  
Give a reason for each answer.



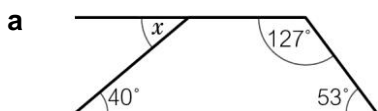
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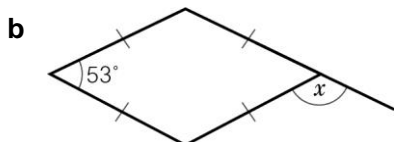
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## Depth

6 Work out the size of  $x$  for each shape.

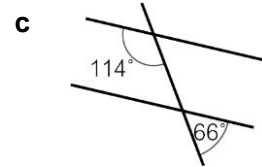
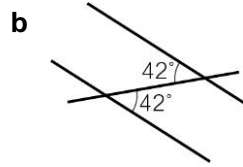
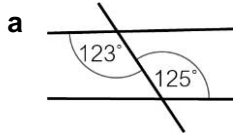


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7 Which of these diagrams show parallel lines?  
Give reasons for your answers.



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