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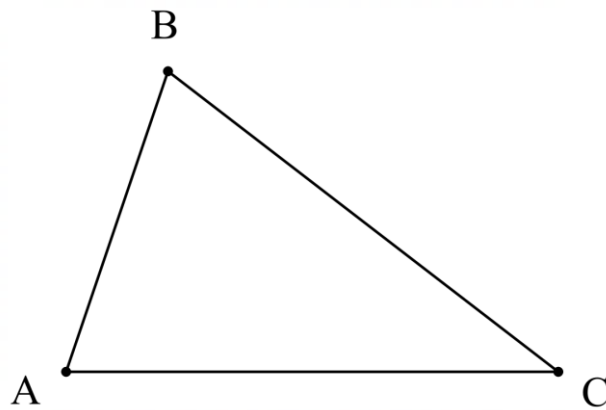office@trefoiltutors.co.uk

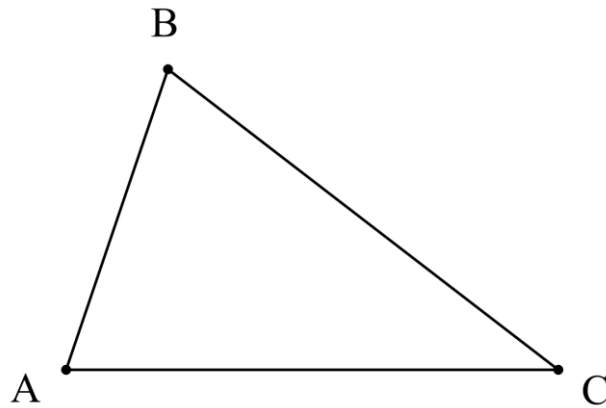# Geometry – Loci – Loci using angle and perpendicular bisectors

1. The diagram below shows triangle ABC. Shade the region which is inside the triangle and less than 4cm away from A.
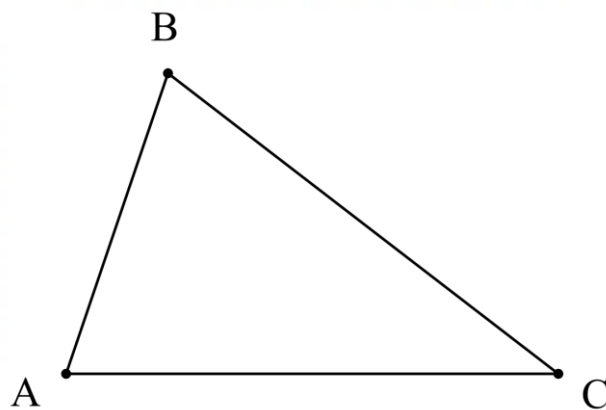

2. The diagram below shows triangle ABC. Shade the region which is inside the triangle, more than 4cm away from A and more than 3cm away from B.

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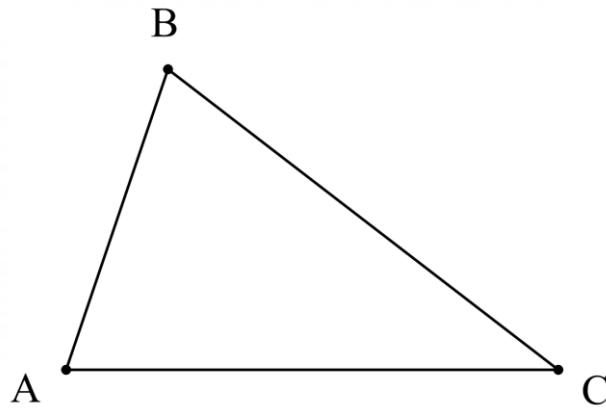
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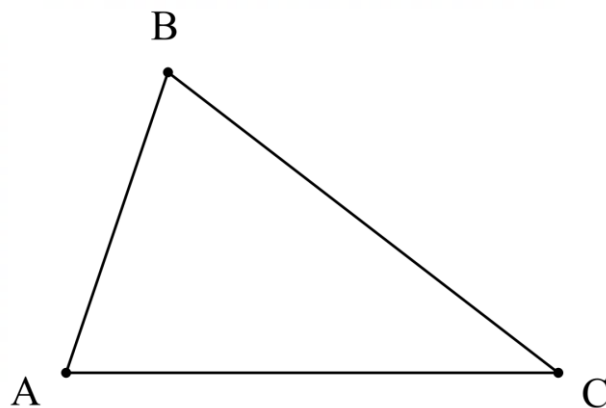
3. The diagram below shows triangle ABC. Shade the region which is inside the triangle, more than 4cm away from C and less than 5cm away from B.
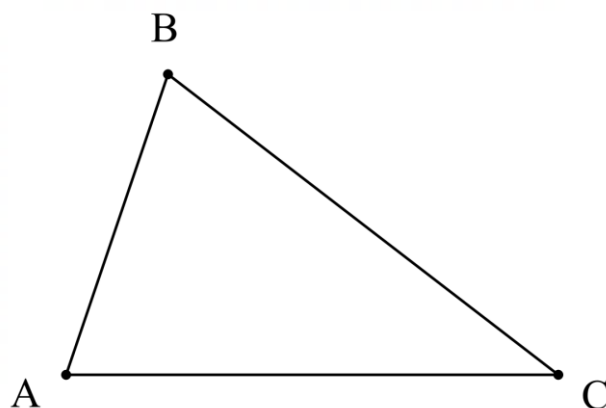

4. The diagram below shows triangle ABC. Shade the region which is inside the triangle, less than 5cm away from A and less than 5cm away from C.

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5.   The diagram below shows triangle ABC. Shade the region which is inside the triangle and is closer to AB than BC.

6.   The diagram below shows triangle ABC. Shade the region which is inside the triangle and is closer to AB than AC.

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7. The diagram below shows triangle ABC. Shade the region which is inside the triangle, is more than 4cm away from B and is closer to AC than BC.
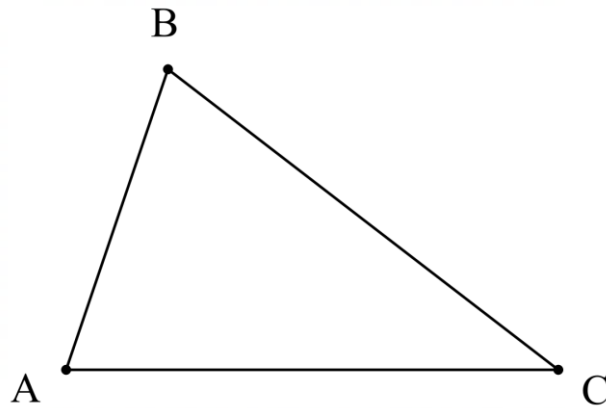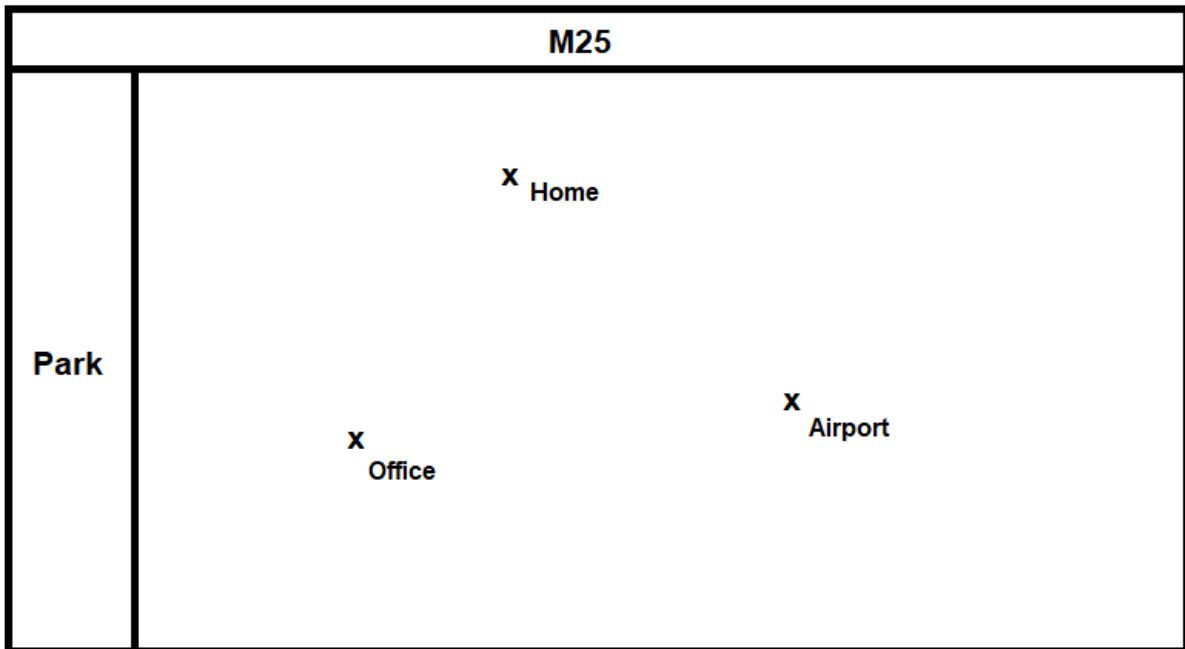

In each of the following questions, use the clues to shade the region(s) in which the treasure can be found.
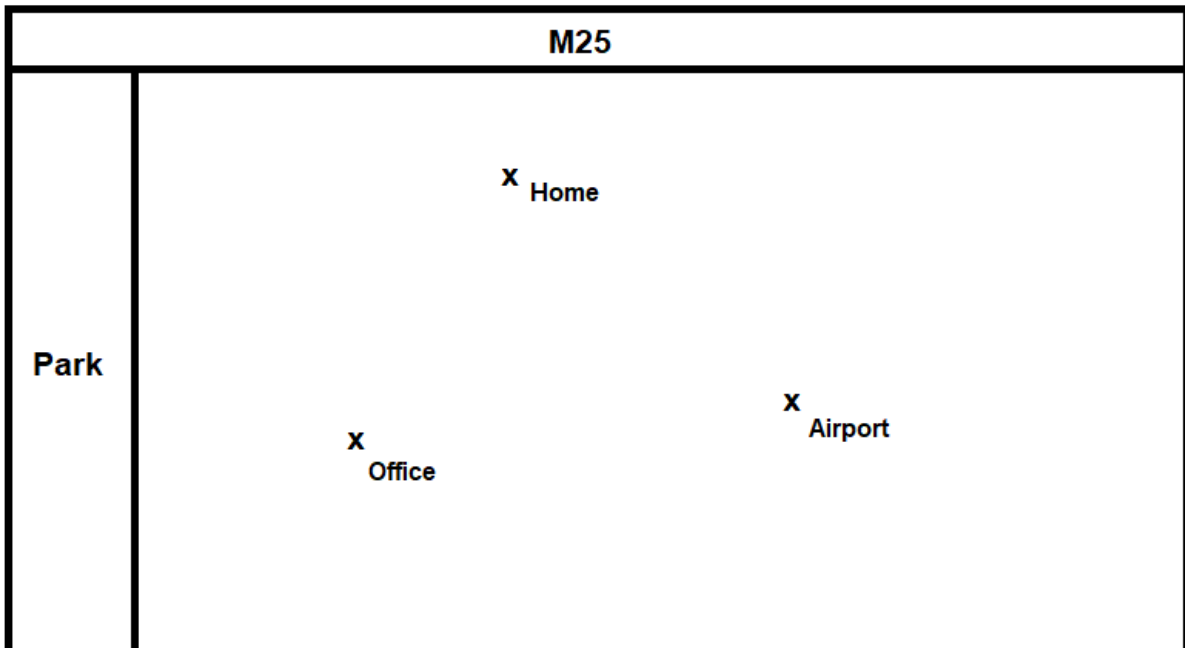
8. The treasure is less than 4 cm away from Vivek's home
   The treasure is less than 3cm away from Vivek's office

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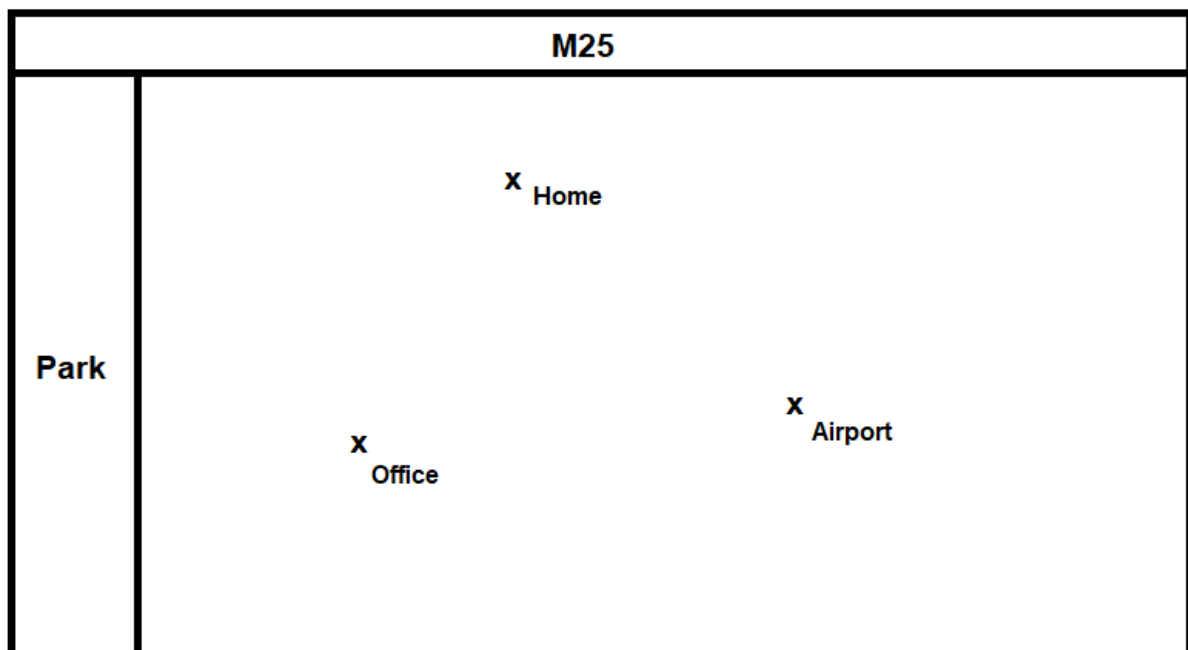
9. The treasure is closer to Vivek's home than to Vivek's office
   The treasure is more than 4cm away from the airport

M25

Park

x Home

x Airport

x
Office

10. The treasure is closer to the park than the M25
    The treasure is less than 5cm away from the office

M25

Park

x Home

x Airport

x
Office

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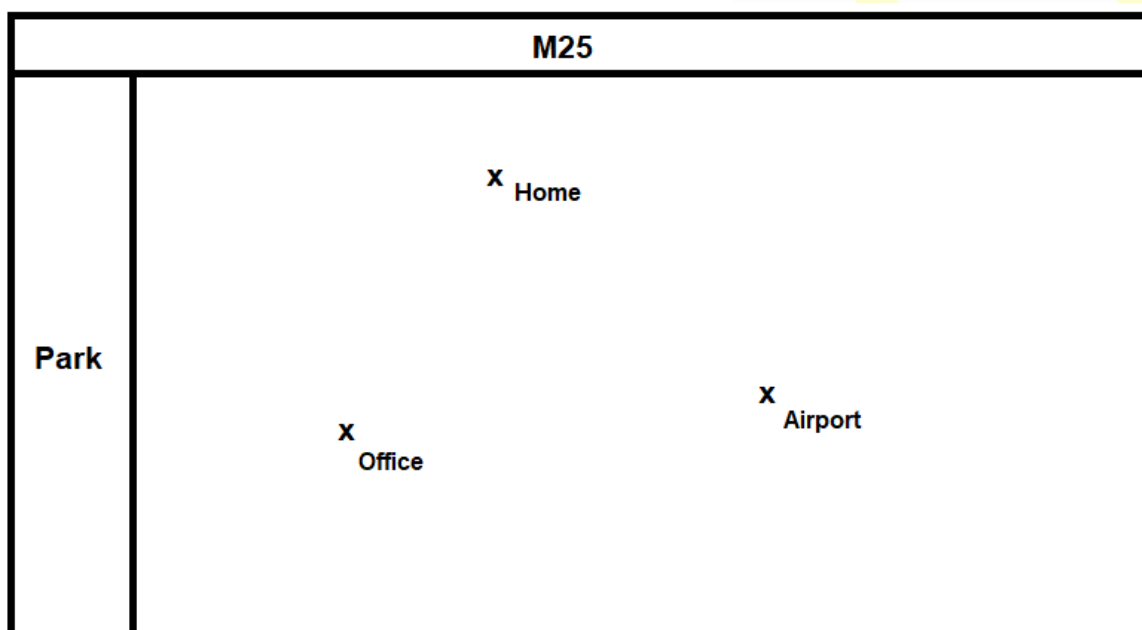www.trefoiltutors.co.uk
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11. The treasure is more than 5cm away from the M25
    The treasure is closer to Vivek's home than his office
    The treasure is less than 3cm away from the airport

M25

Park

x Home

x
Airport

x
Office
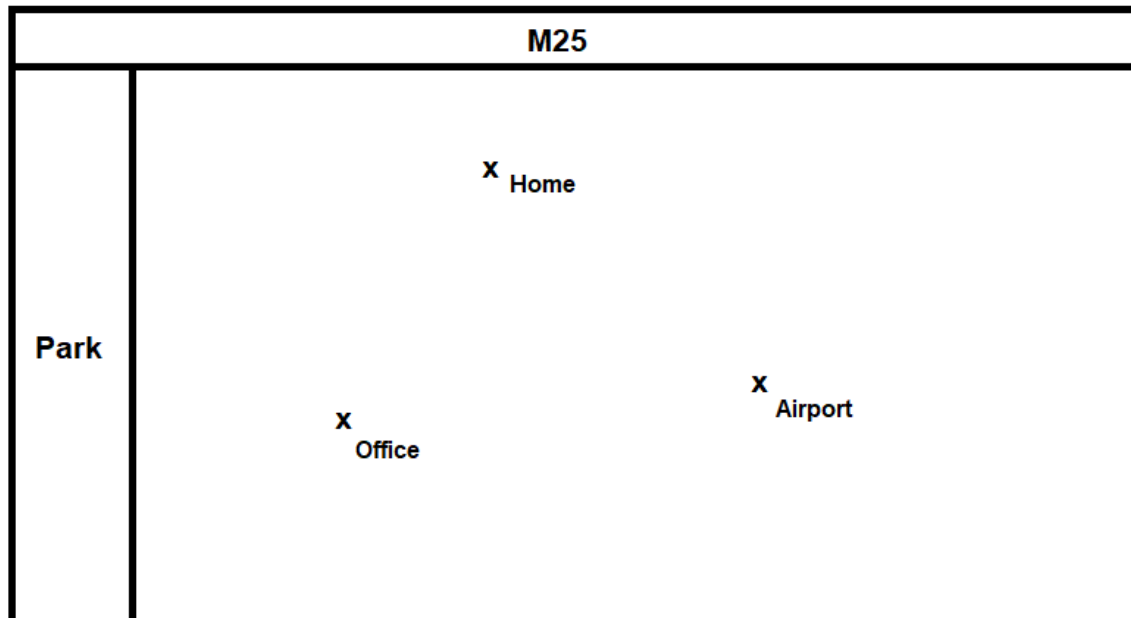
In each of the following questions, find the exact location(s) of the treasure.

12. The treasure is equidistant from Vivek's home and his office
    The treasure 4cm away from the airport
    The treasure is more than 4cm away from Vivek's home

M25

Park

x Home

x
Airport

x
Office

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13. The treasure is equidistant from the M25 and the park
    The treasure is equidistant from the office and the airport

M25

Park

x Home

x Airport

x Office
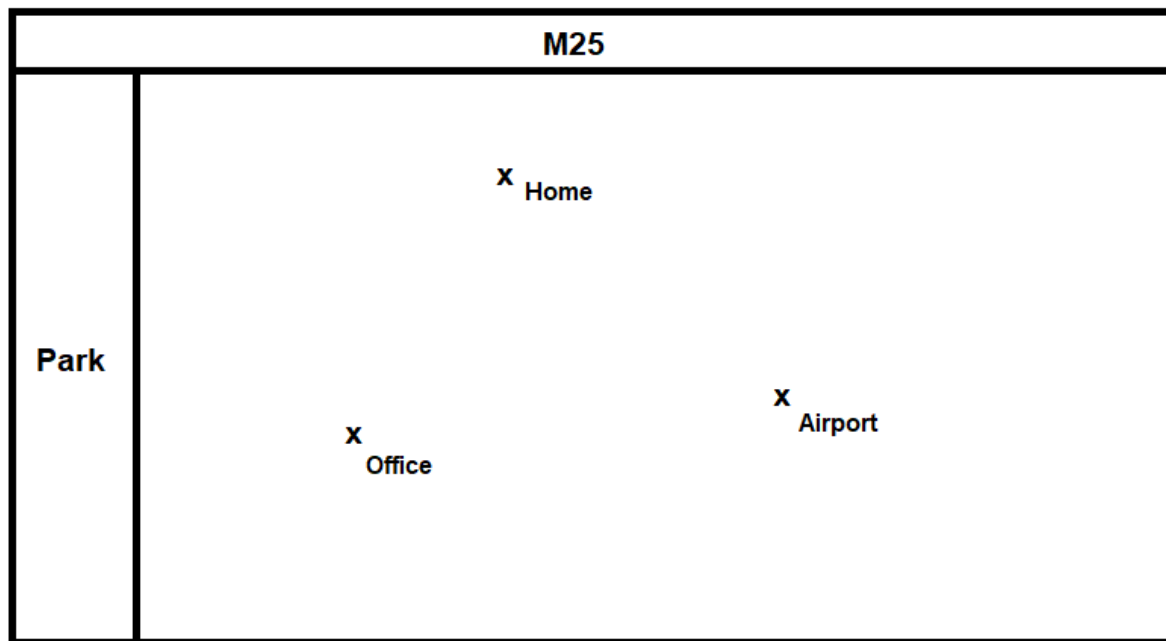
14. The treasure is exactly 5cm away from Vivek's home
    The treasure is exactly 4cm away from the airport
    The treasure is more than 3cm away from the M25

M25

Park

x Home

x Airport

x Office