

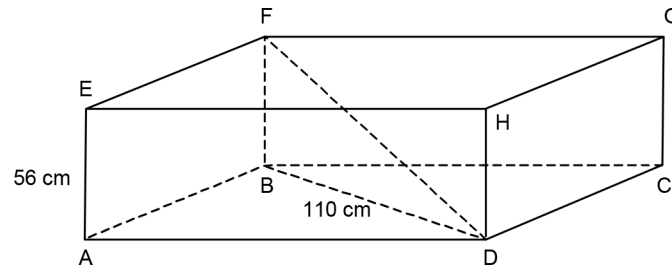
GCSE Revision: 3D Trigonometry



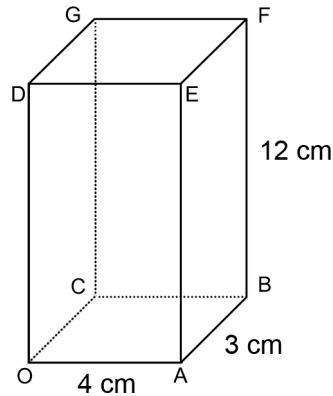
GCSE Tier: Higher

Target Grade: 6-7

- 1) The box has base ABCD and top EFGH.
The height of the box is 56 cm.
Calculate the angle between FD and the base.



- 2) The diagram shows the outline drawing of a cuboid, 4 cm by 3 cm by 12 cm.
Calculate angle FOB.



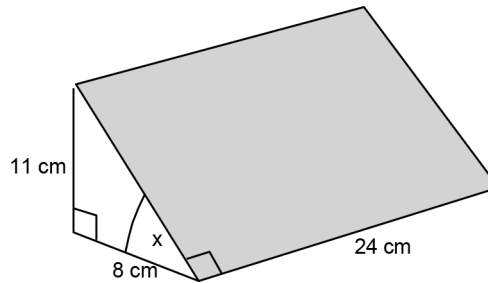
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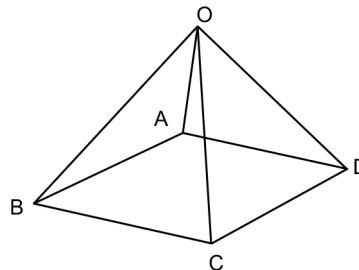
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- 3) The diagram represents a block used to edge paths.
The block is a triangular prism.



Calculate angle x .

- 4) ABCD is the square base of a pyramid of side 12 cm and vertical height of 18 cm.
Calculate the angle between OB and the base.



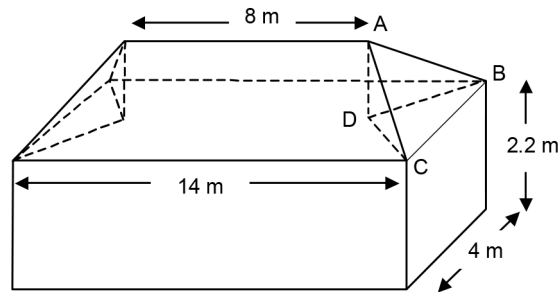
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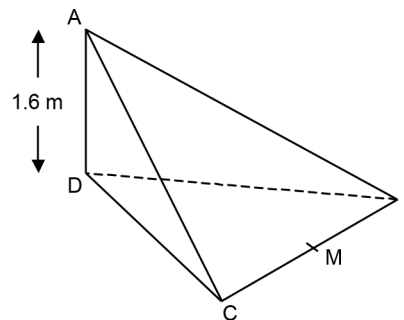
GCSE Tier: Higher

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- 5) This is a sketch of a marquee.
It has two planes of symmetry.



The overall height of the marquee is 3.8 m.
The diagram below shows part of the roof.



The plane BCD is horizontal and line AD is vertical.
M is the mid-point of BC.
Calculate angle ACD.

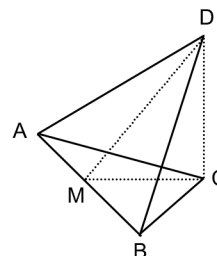
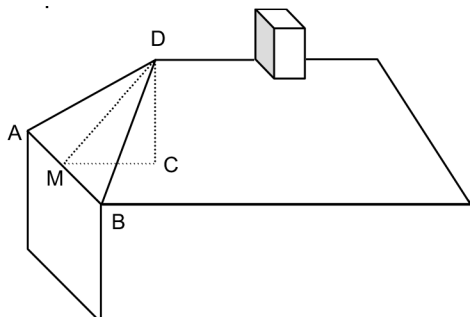
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- 6) The diagram shows the end of a house roof.
The plane ABC is horizontal and the line CD is vertical.



M is the midpoint of the line AB .

$AD = BD = 7.5$ m.

$CD = 3.8$ m and $AB = 9.0$ m.

Calculate angle DMC .

Let angle $DMC = x$.