23 The diagram shows a solid pyramid *ABCDE* with a horizontal base.

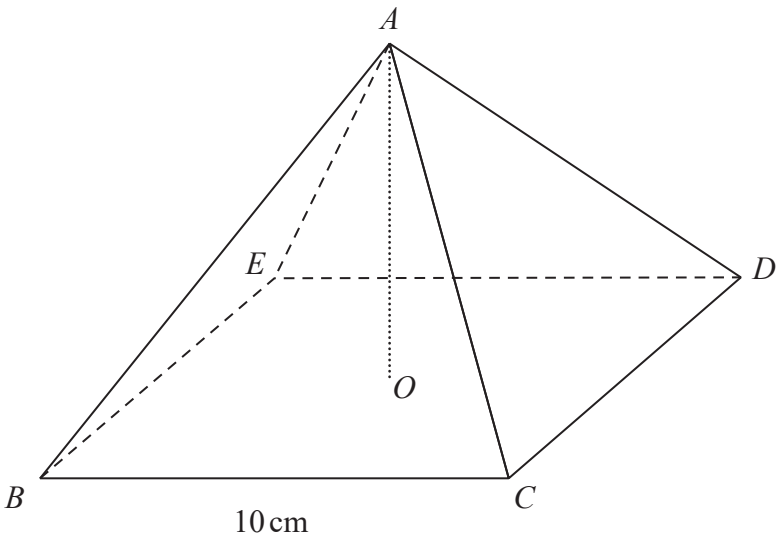


Diagram **NOT** accurately drawn

The base, *BCDE*, of the pyramid is a square of side 10 cm.

The vertex *A* of the pyramid is vertically above the centre *O* of the base so that $AB = AC = AD = AE$

The **total** surface area of the pyramid is 360 cm^2

Work out the size of the angle between *AC* and the base *BCDE*.
Give your answer correct to 3 significant figures.

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(Total for Question 23 is 6 marks)

Turn over for Question 24