

5

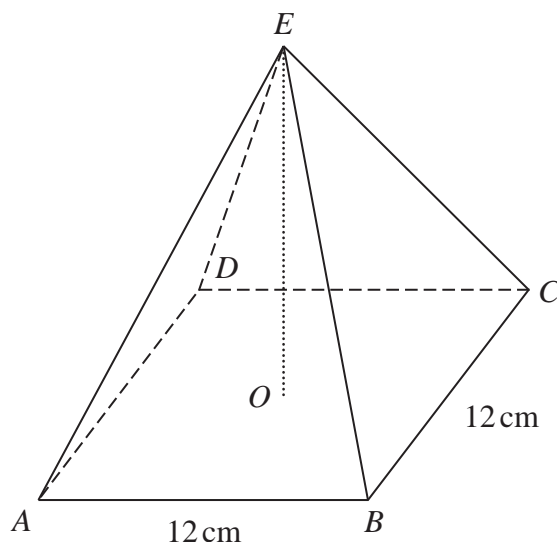


Diagram **NOT**
accurately drawn

Figure 2

Figure 2 shows a right pyramid with a square base $ABCD$ and vertex E .

The base of the pyramid is horizontal with $AB = BC = 12$ cm.

The diagonals of the base intersect at the point O .

The vertex E of the pyramid is vertically above O and the angle between EA and the plane $ABCD$ is 30°

The height of the pyramid is h cm.

- (a) Find the exact value of h

(3)

The point F lies on AD such that $AF:FD = 1:4$

- (b) Calculate, to the nearest degree, the size of the angle EFO .

(4)



Question 5 continued

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Area for writing answers, consisting of multiple horizontal dotted lines.



Question 5 continued

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(Total for Question 5 is 7 marks)

