

9

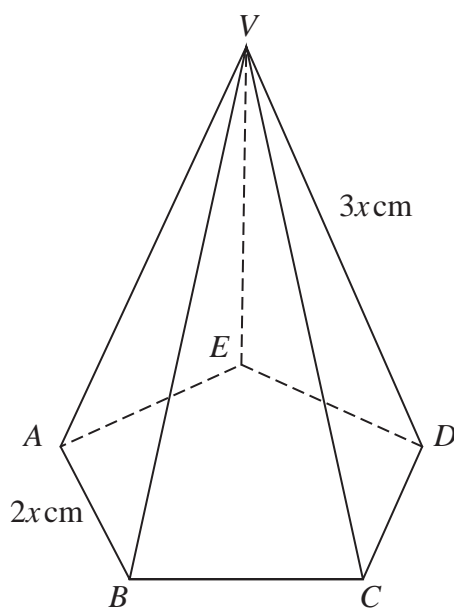
Diagram **NOT**  
accurately drawn**Figure 4**

Figure 4 shows a right pyramid with vertex  $V$  and base  $ABCDE$  which is a regular pentagon.

$$AB = BC = CD = DE = EA = 2x \text{ cm}$$

$$VA = VB = VC = VD = VE = 3x \text{ cm}$$

Find, in degrees to one decimal place, the size of the angle between the plane  $VBC$  and the base  $ABCDE$

(6)

DO NOT WRITE IN THIS AREA

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**Question 9 continued**

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**(Total for Question 9 is 6 marks)**

P 7 2 8 6 6 A 0 2 9 3 6