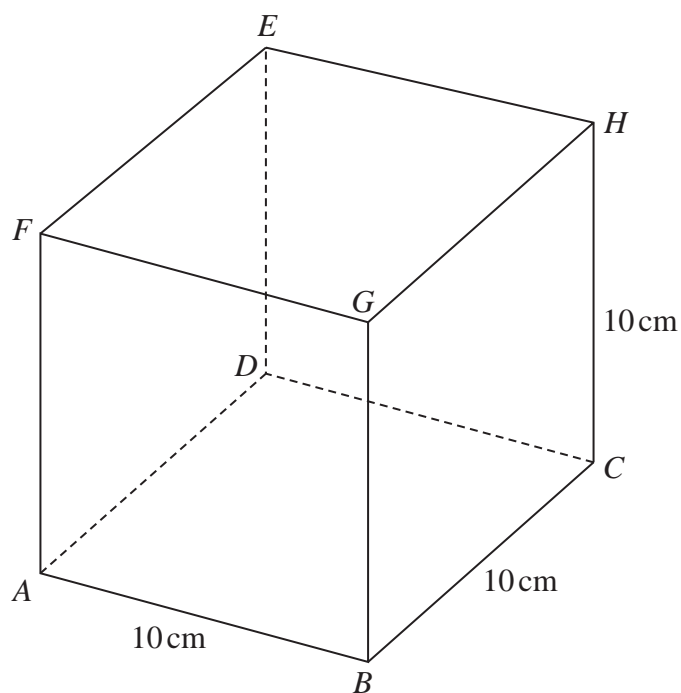**4**

E

H

Diagram **NOT**
accurately drawn

F

G

10 cm

D

C

A

10 cm

B

10 cm

Figure 2

Figure 2 shows a solid cube *ABCDEFGH* with sides of length 10 cm.

(a) Find, in cm, the exact length of *FC*

(2)

(b) Find, in degrees to one decimal place, the size of $\angle FCA$

(2)

(c) Find, to the nearest degree, the size of the obtuse angle between the plane *BFH* and the plane *BHC*

(5)

Question 4 continued

Question 4 continued

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Question 4 continued

(Total for Question 4 is 9 marks)