5

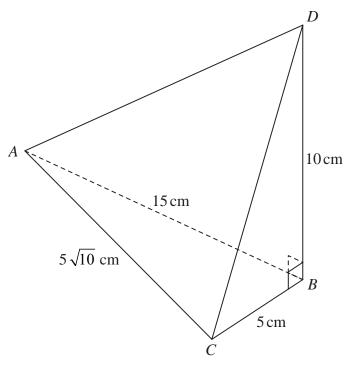


Diagram **NOT** accurately drawn

Figure 1

Figure 1 shows a triangular pyramid ABCD where triangle ABC is the base and BD is perpendicular to the base.

$$AB = 15 \text{ cm}$$
 $AC = 5\sqrt{10} \text{ cm}$ $BC = 5 \text{ cm}$ $BD = 10 \text{ cm}$

(a) Show that $\angle ABC = 90^{\circ}$

(2)

(b) Find, in degrees to 1 decimal place, the size of $\angle DAC$.

(4)

The point X on AC is such that BX is perpendicular to AC.

(c) Find, in degrees to 1 decimal place, the size of $\angle DXB$.

(4)

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Question 5 continued		

Question 5 continued

Question 5 continued

(Total for Question 5 is 10 marks)

