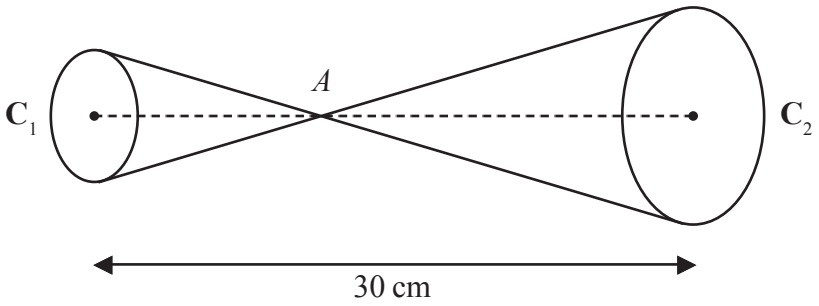
24 The diagram shows two cones $\mathbf{C}_1$ and $\mathbf{C}_2$

Diagram **NOT** accurately drawn



The vertex of $\mathbf{C}_1$ coincides with the vertex of $\mathbf{C}_2$ at the point A
$\mathbf{C}_1$ and $\mathbf{C}_2$ have the same axis of symmetry.

height of $\mathbf{C}_1$ + height of $\mathbf{C}_2$ = 30 cm

total surface area of $\mathbf{C}_1$: total surface area of $\mathbf{C}_2$ = 4 : 9

volume of $\mathbf{C}_1$ = 23.04π cm^3

Work out the radius of the base of $\mathbf{C}_2$
Show your working clearly.

..... cm

(Total for Question 24 is 5 marks)

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