

- 3 The volume, $V \text{ cm}^3$, of a sphere of radius $r \text{ cm}$ is increasing at the rate of $60 \text{ cm}^3/\text{s}$.

Find the rate of increase of the radius, in cm/s correct to 2 significant figures, when the volume is $36000\pi \text{ cm}^3$.

(7)

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Question 3 continued**(Total for Question 3 is 7 marks)**

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