


If radius and height of cone is increased 10 then volume

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If radius and height of cone is increased 10 then volume

How to find height of a cone when given radius and volume. How to find height of cone with radius and volume.

TrickVolume is directly proportional to the height and square of the radius Let the original volume of the cone be 100 cubic units New volume = 100 + 10% + 10% + 90% = 108.9 cubic units Volume increase = $\frac{108.9 - 100}{100} \times 100\% = 8.9\%$ Traditional method: Date: Increase of the cone radius = 10% Decrease in height = 10% Formula used: Cone volume = $\frac{1}{3} \pi r^2 h$, where r is the base radius and h is the height of the cone. Calculation: Let V be the volume of the cone, R and H are the radius and height respectively. Original volume, $V = \frac{1}{3} \pi R^2 H$ 10 After increasing the radius by 50%, the radius becomes $\frac{3r}{2}$ and after decreasing the height by 20%, the height becomes $\frac{4h}{5}$ Therefore, new volume, $\left(\frac{3r}{2}\right)^2 \left(\frac{4h}{5}\right) = \frac{9}{4} \times \frac{4}{5} r^2 h = \frac{9}{5} r^2 h$ After increasing the radius by 50%, the radius becomes $\frac{3r}{2}$ and after decreasing the height by 20%, the height becomes $\frac{4h}{5}$ Therefore, new volume, $\left(\frac{3r}{2}\right)^2 \left(\frac{4h}{5}\right) = \frac{9}{4} \times \frac{4}{5} r^2 h = \frac{9}{5} r^2 h$ Part of questions and answers answered: > ACTIVITIES > Member States Similar questions Something is wrong. Wait a minute and try again. The inclined height of a cone is increased by 10%. If the radius remains the same, the curved surface is increased by the formula of the curved surface of a cone with base radius 'r' and inclined height 'l' is given as curved surface Area = $\pi r l$ Now, it is said that the inclined height is increased by 10%. So the new inclined height is $1.1l$ So now New Curved Surface = $1.1\pi r l$ Let's see that the percentage increase of the curved surface is 10% Concept: Volume of a Right Circular Cone Is there an error in this question or solution? 95. An inverted conical vessel is filled with water to its brim. The height of the vessel is 8 cm and the radius of the open end is 5 cm. When a couple of solid spherical metal balls each of the beam has dropped into the ship, 25% of the water is overflowed. The number of balls is: A. 100 Let the requested number of balls = according to the question, the question,

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