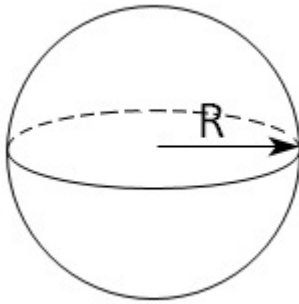


Answer on Question #71894 – Math – Geometry

Question

1. A rounded cup of tea has an opening shaped like a sphere. That radius is 5cm. What is the volume?

Solution



The formula for the volume of a sphere is

$$V = \frac{4}{3}\pi R^3$$

Substitute the value of radius $R = 5$ cm:

$$V = \frac{4}{3} \cdot 3.14 \cdot 5^3 = \frac{4}{3} \cdot 3.14 \cdot 125 = 523.33 \text{ cm}^3$$

Answer: The volume of the cup is equal to 523.33 cm^3 .