

KEY

Finding Volume of Cylinders, Cones, and Spheres Review

Name _____

Find the volume of the following. Use 3.14 for π . Round to the nearest hundredth if necessary.

1.



Formula: $V = \pi r^2 h$

Plug in Values: $V = (3.14)(1^2)(7)$

Volume: $V = 21.98$

2.

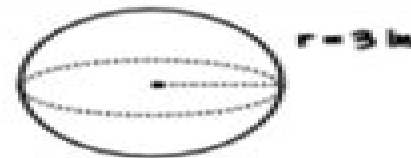


Formula: $V = \frac{1}{3} \pi r^2 h$

Plug in Values: $V = \frac{1}{3} (3.14)(6^2)(4)$

Volume: $V = 150.72$

3.



Formula: $V = \frac{4}{3} \pi r^3$

Plug in Values: $V = \frac{4}{3} (3.14)(3^3)$

Volume: $V = 113.04$

Find the volume of the following. Leave your answer in terms of π . Round to the nearest hundredth if necessary.

4.



Formula: $V = \pi r^2 h$

Plug in Values: $V = (\pi)(5^2)(10)$

Volume: $V = 200\pi$

5.



Formula: $V = \frac{1}{3} \pi r^2 h$

Plug in Values: $V = \frac{1}{3} (\pi)(2^2)(3)$

Volume: $V = 4\pi$

6.



Formula: $V = \frac{4}{3} \pi r^3$

Plug in Values: $V = \frac{4}{3} (\pi)(2^3)$

Volume: $V = 10.67\pi$

7. A cylinder has a volume of $288\pi \text{ in}^3$ and a height of 8 in. Find the radius of the cylinder.

$$V = \pi r^2 h$$

$$288\pi = \pi r^2 (8)$$

$$288 = r^2 (8)$$

$$36 = r^2$$

$$r = 6$$

8. A cone has a volume of 44 in^3 and its base has an area of 33 in^2 . Find the height of the cone.

$$V = \frac{1}{3} \pi r^2 h$$

$$44 = \frac{1}{3} (33) h$$

$$44 = (11) h$$

$$h = 4$$

9. A sphere has a volume of $36\pi \text{ in}^3$. Find the radius of the sphere.

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

$$36\pi = \frac{4}{3} \pi r^3$$

$$36 = \frac{4}{3} r^3$$

$$27 = r^3$$

$$r = 3$$

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RS Peters



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