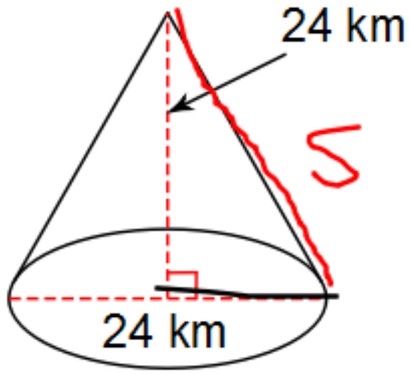
Infinite Pre-Algebra

Show

Find the volume of each cone, cylinder, or sphere. Round all final answers to the nearest tenth, and don't forget to include your units!

cubed

21)



$r = 12\text{km}$

$h = 24\text{km}$

To solve for the h if not given use

$a^2 + b^2 = c^2$

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

$$V = \frac{\pi(12^2)24}{3}$$

$$V = \frac{\pi(144)24}{3}$$ ← First

$$V = \frac{10857.344}{3}$$

$$V = 3619.1\ \text{km}^3$$

Find the volume of each cone, cylinder, or sphere. Round all final answers to the nearest tenth, and don't forget to include your units!

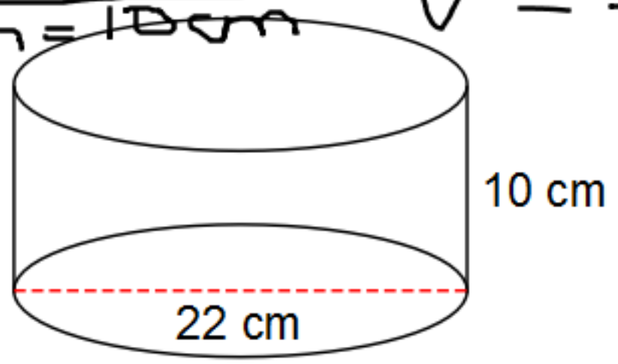
$V = \pi r^2 h$

$V = \pi (11)^2 (10)$

$V = \pi (121)10$

$V \approx 3801.3 cm^3$

22) $r = 11cm$, $h = 10cm$



Find the volume of each cone, cylinder, or sphere. Round all final answers to the nearest tenth, and don't forget to include your units!

$V = \left(\frac{4}{3}\right)\pi r^3$ 2.5^3 $2.5 \times 2.5 \times 2.5$

23)

$V = \left(\frac{4}{3}\right)\pi(2.5^3)$

$V = \left(\frac{4}{3}\right)\pi(15.625)$

$V = 65.4\ cm^3$

Homework - # 7–10 Solving for Volume

*#7 you will need to find the height