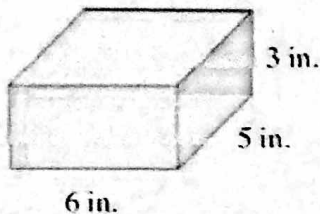


Chapter 9 Scanned Homework #3

Contemporary Math

All work and any formulas used must be shown for problems involving a process.

1. Find the volume and surface area. (4 points each)



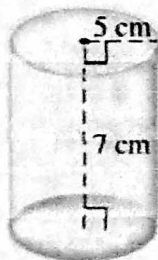
Volume:

Surface Area:

$$V = B \cdot w \cdot h = 3 \cdot 5 \cdot 6 = 90 \text{ in}^3$$

$$A = 2(lw + hl + hw) = 2(6 \cdot 5 + 5 \cdot 3 + 5 \cdot 6) = 150 \text{ in}^2$$

2. Find the volume and surface area. (4 points each) Use 3.14 for π .



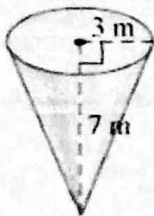
Volume:

Surface Area:

$$V = \pi r^2 h = 3.14 \cdot 25 \cdot 7 = 549.5 \text{ cm}^3$$

$$A = 2\pi rh + 2\pi r^2 = 2 \cdot 3.14 \cdot 5 \cdot 7 + 2 \cdot 3.14 \cdot 25 = 376.8 \text{ cm}^2$$

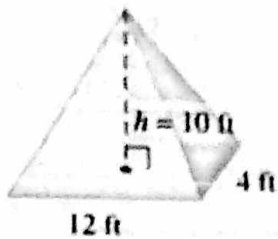
3. Find the volume. (4 points) Use 3.14 for π .



Volume:

$$V = \frac{1}{3} \pi R^2 h = \frac{1}{3} \cdot 3.14 \cdot 9 \cdot 7 = 65.94 \text{ m}^3$$

4. Find the volume. (4 points)



Volume: $\frac{l \cdot w \cdot h}{3} = \frac{12 \cdot 4 \cdot 10}{3} = 480$