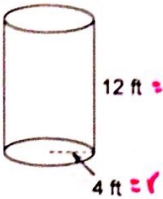
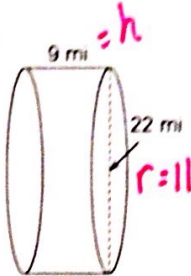


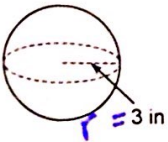
Volume

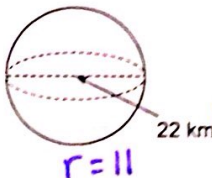
CYLINDERS: Find the volume of each. Leave your answer in terms of pi and as a decimal rounded to the hundredths place.

1)  $V = \pi r^2 \cdot h$
 $V = \pi 4^2 (12)$
 $V = 192\pi \approx 603.19 \text{ ft}^3$

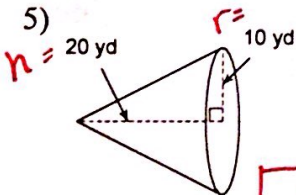
2)  $V = \pi \cdot 11^2 \cdot 9$
 $V = 1089\pi \approx 3421.19 \text{ mi}^3$

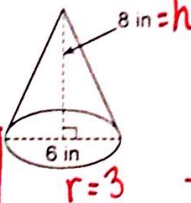
SPHERES: Find the volume of each. Leave your answer in terms of pi and as a decimal rounded to the hundredths place.

3)  $V = \frac{4}{3} \pi r^3$
 $V = \frac{4}{3} \pi \cdot 3^3$
 $V = 36\pi \approx 113.1 \text{ in}^3$

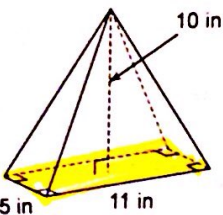
4)  $V = \frac{4}{3} \pi (11)^3$
 $V \approx 5575.28 \text{ km}^3$

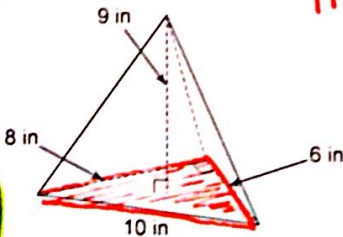
CONES: Find the volume of each. Leave your answer in terms of pi and as a decimal rounded to the hundredths place.

5)  $V = \frac{1}{3} \pi r^2 \cdot h$
 $V = \frac{1}{3} \pi \cdot 10^2 \cdot 20$
 $V = \frac{2000\pi}{3} \approx 2094.40 \text{ yd}^3$

6)  $V = \frac{1}{3} \pi 3^2 \cdot 8$
 $V = 24\pi \approx 75.40 \text{ in}^3$

PYRAMID: Find the volume of each. Round your answers to the nearest hundredth.

7)  **Rectangular Pyramid**
 $V = \frac{1}{3} B \cdot h$
 $V = \frac{1}{3} \cdot 55 \cdot 10$
 $V = 183.\bar{3} \text{ in}^3$
 B = base area (rectangle)
 $B = l \cdot w$
 $B = 5 \cdot 11 = 55$

8)  **Triangular Pyramid**
 $V = \frac{1}{3} B \cdot h$
 $V = \frac{1}{3} (24) (9)$
 $V = 72 \text{ in}^3$
 B = base area (triangle)
 $B = \frac{1}{2} b \cdot h = \frac{1}{2} \cdot 8 \cdot 6 = 24$