Name: __________________________

A) Find the volume of each cone. Round your answer to two decimal places.
(All uses \( \pi = 3.14 \))

1) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 5^2 \times 11 \quad \text{in}^3
\]

2) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 8^2 \times 26 \quad \text{ft}^3
\]

3) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 18^2 \times 22 \quad \text{yd}^3
\]

B) Find the volume of each cone with the given parameters. Round your answer to two decimal places.

(All uses \( \pi = 3.14 \))

4) \( \text{radius} = 20 \text{ ft} \), \( \text{height} = 23 \text{ ft} \) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 20^2 \times 23 \quad \text{ft}^3
\]

5) \( \text{height} = 7 \text{ yd} \), \( \text{diameter} = 24 \text{ yd} \) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times (12)^2 \times 7 \quad \text{yd}^3
\]

6) \( \text{diameter} = 19 \text{ yd} \), \( \text{height} = 13 \text{ yd} \) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times (9.5)^2 \times 13 \quad \text{yd}^3
\]

7) \( \text{height} = 6 \text{ in} \), \( \text{radius} = 4 \text{ in} \) \( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 4^2 \times 6 \quad \text{in}^3
\]

8) The roof of a castle is in the shape of a cone. It has a height of 12 feet and a diameter of 6 feet, how much air occupies the roof? (Use \( \pi = 3.14 \))

\( \text{Volume} = \) \[
\frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.14 \times 3^2 \times 12 \quad \text{ft}^3
\]
A) Find the volume of each cone. Round your answer to two decimal places. (use $\pi = 3.14$)

1) 

2) 

3) 

B) Find the volume of each cone. Round your answer to two decimal places.

4) radius = 20 ft ; height = 23 ft

5) height = 7 yd ; diameter = 24 yd

6) diameter = 19 yd ; height = 13 yd

7) height = 6 in ; radius = 4 in

8) The roof of a castle is in the shape of a cone. It has a height of 12 feet and a diameter of 6 feet, how much air occupies the roof? (use $\pi = 3.14$)

113.04 cubic feet