

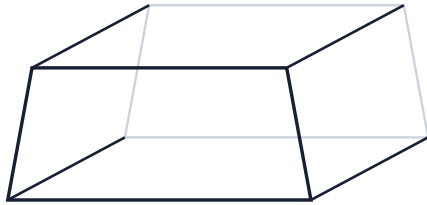
Volume of Solids

Find the volume. $\sqrt{n}$ means the square root of n . Use calculator pi, retain intermediate precision, and round the final answer to the nearest hundredth.

1. Right square prism: Find the volume.

Given: base side = 5 yd; prism height = 13 yd

Formula and work:



base s

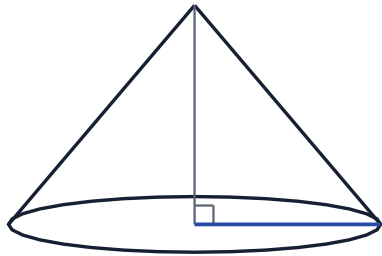
not to scale

perp. H

2. Right cone: Find the volume.

Given: radius = 6 ft; perpendicular height = 8 ft

Formula and work:



r

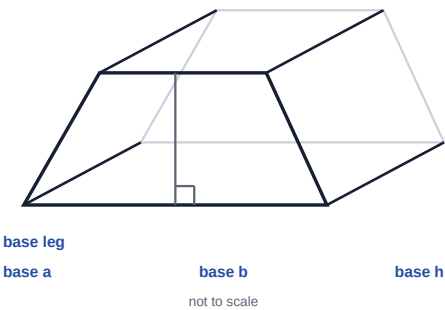
not to scale

perp. H

Volume of Solids

Find the volume. sqrt(n) means the square root of n. Use calculator pi, retain intermediate precision, and round the final answer to the nearest hundredth.

3. Right trapezoidal prism: Find the volume.

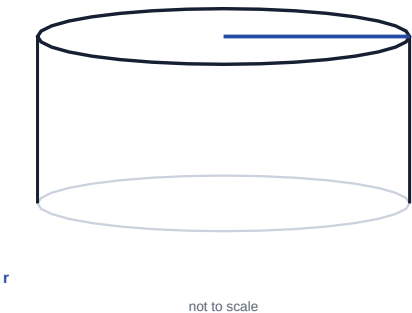


perp. H

Given: short parallel side = 5 cm; long parallel side = 13 cm;
trapezoid height = 8 cm; equal base leg = sqrt(80) cm; prism
length = 13 cm

Formula and work:

4. Right cylinder: Find the volume.



perp. H

Given: radius = 5 in; cylinder height = 10 in

Formula and work:

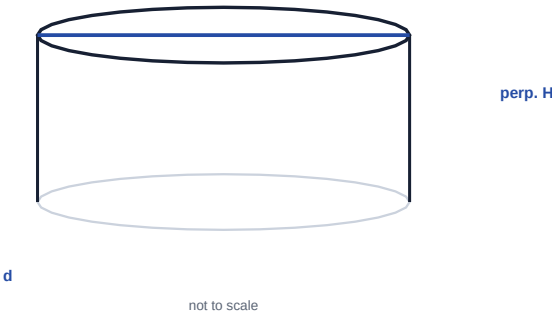
Volume of Solids

Find the volume. sqrt(n) means the square root of n. Use calculator pi, retain intermediate precision, and round the final answer to the nearest hundredth.

5. Right cylinder: Find the volume.

Given: diameter = 10 mm; cylinder height = 16 mm

Formula and work:



6. Right prism with a right-triangle base: Find the volume.

Given: base leg = 6 yd; base height = 8 yd; base hypotenuse = 10 yd; prism length = 5 yd

Formula and work:

