Volume of a Prism and Cylinder Warm UP

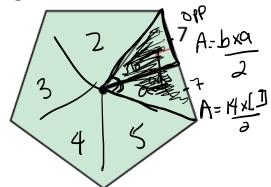
Find the measure of a central angle of a regular dodecagon (12-gon).

VI.) Central angle

(2) Centralangle/2=
(3.) Determine the type the approuch
4) Area of Base one triangle

5.) $\triangle \times \# of sides$

Find the area of the regular arapo Hem pentagon.



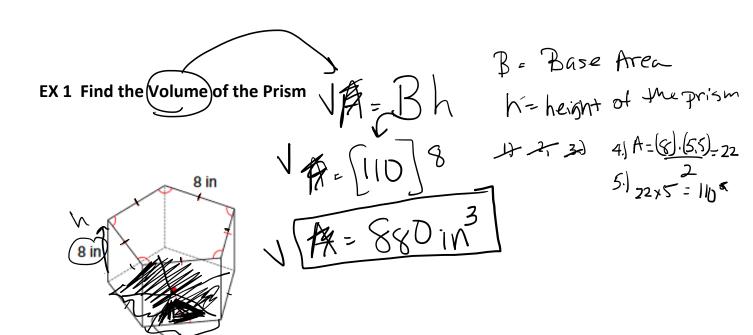
3.) SO HCAHTOA

$$Tan 36^{3} = 7$$
 $7 = \alpha \cdot Tan \cdot 36^{3}$
 $Tan 36^{3} = 7$ $7 = \alpha \cdot Tan \cdot 36^{3}$
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4)
$$A = 14 \times 9.6347 = 67.449$$

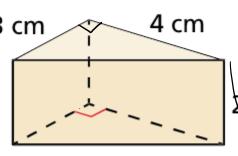
5.) A of pentagon = 67.492 ×5

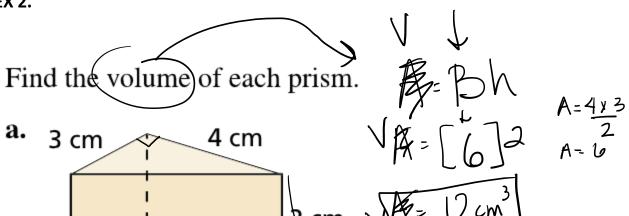
Apantagor = 337.2 Units2



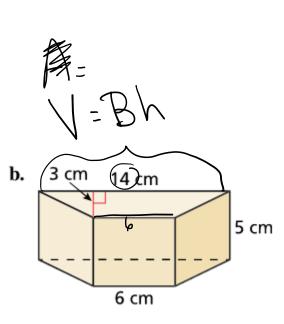
5.5 in

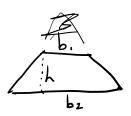






V[N]



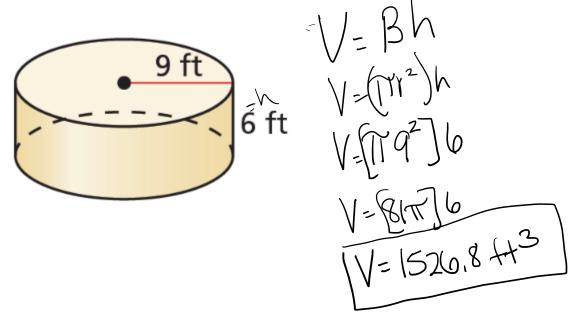


A of trapezoid = $(b_1+b_2)h$ $\frac{2}{(0+14)^3}$ $= \frac{20(3)}{2} = 30 \text{ cm}$

$$V=(30)5$$
 $V=150 \text{ cm}$

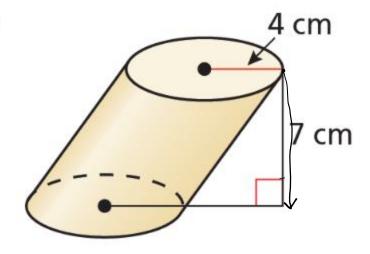
Find the volume of each cylinder.

a.



Oblique Clinder

b.



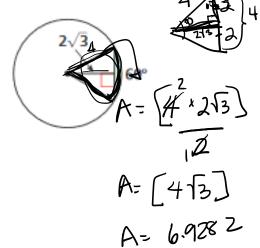
$$V = B N$$

$$V = (\pi \sqrt{2}) N$$

$$V = (\pi \sqrt{2})^{\frac{1}{2}}$$

$$V = (\pi \sqrt{2})^{\frac{1$$

Ar Are 30.



Arenof $\Delta = 0$ $\begin{pmatrix}
\theta^{\circ} & \times \pi r^{2} \\
3u0_{1} \\
10 & \times \pi r^{2}
\end{pmatrix} - \Delta = 0$ $\begin{pmatrix}
\pi r + 2 \\
0 \\
3x3258
\end{pmatrix} - 6.9282 = 0$ 8.37358

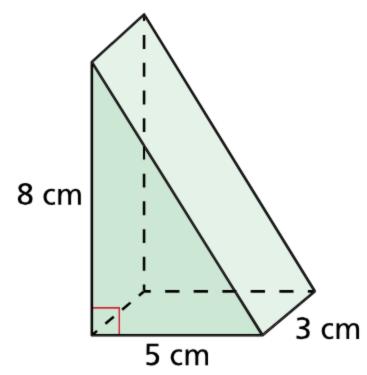
Find the area of an octagon with a radius of 11 units.

$$A = A \times 40 + 5 \times 8$$

$$A = A \times$$

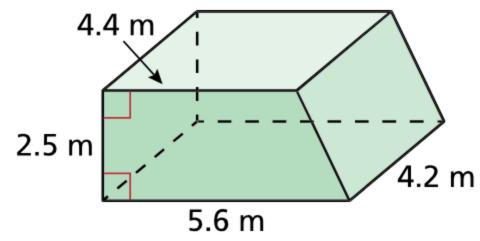
Find the volume of each prism.

a.



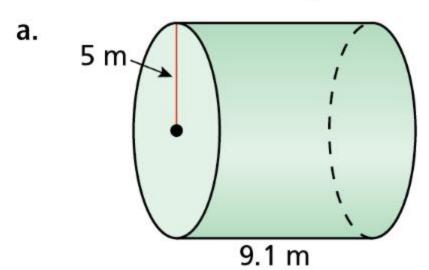
60 cubic centimeters

b.

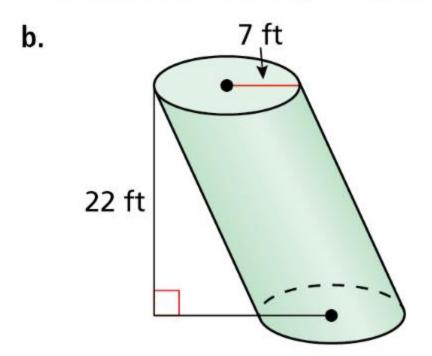


52.5 cubic meters

Find the volume of each cylinder.



227.5 π , or about 714.71 cubic meters



 1078π , or about 3386.64 cubic feet