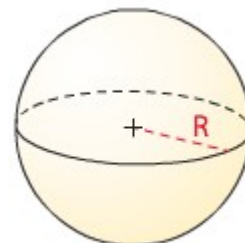


I. Volume d'une boule

♥ Propriété : Le volume d'une boule de rayon R est

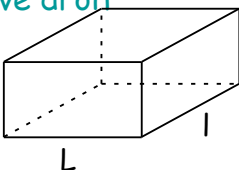
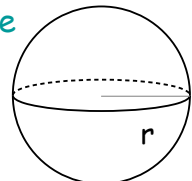
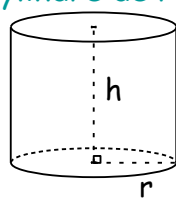
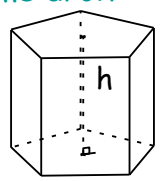
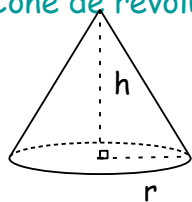
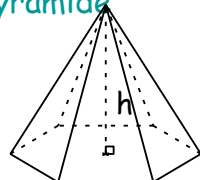
$$V = \frac{4}{3} \pi R^3.$$



Exemple : Pour R = 5 cm : $V = \frac{4}{3} \times \pi \times 5^3 = \frac{500}{3} \pi \text{ cm}^3.$

II. Volume des solides usuels

♥

<p>Pavé droit</p>  <p>$V = L \times l \times h$</p>	<p>Boule</p>  <p>$V = \frac{4}{3} \times \pi \times r^3$</p>
<p>Cylindre de révolution</p>  <p>$V = \text{Aire base} \times h$ $V = \pi r^2 \times h$</p>	<p>Prisme droit</p>  <p>$V = \text{Aire base} \times h$</p>
<p>Cône de révolution</p>  <p>$V = \frac{\text{Aire base} \times h}{3}$ $V = \frac{\pi r^2 \times h}{3}$</p>	<p>Pyramide</p>  <p>$V = \frac{\text{Aire base} \times h}{3}$</p>