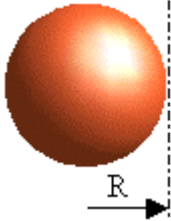
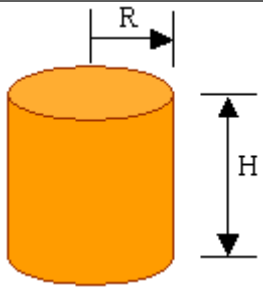
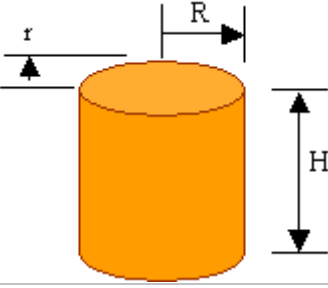
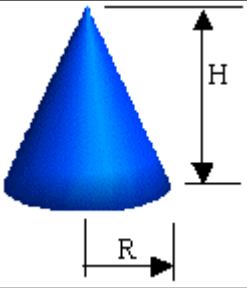


Geometric Formulas

Areas and Volumes

Figure	Areas	Volume
Sphere		
	$4 * \text{Pi} * R^2$	$(4/3)\text{Pi}R^3$
Cylinder With Circular Base		
	<p>Base Area = $R * R * \text{Pi}$</p> <p>Lateral Area = $2 * \text{Pi} * R * H$</p> <p>Total Area = $2\text{Pi}RH + 2\text{Pi}R^2$</p>	$\text{Pi}R^2H$
Cylinder With Elliptic Base		
	<p>Base Area = $R * r * \text{Pi}$</p> <p>Lateral Area = $(R + r) * \text{Pi} * H$</p> <p>Total Area = (Base Area) + (Lateral Area)</p>	$R * r * \text{Pi} * H$
Right Cone		
	<p>Slant Height $S = \sqrt{R^2 + H^2}$</p> <p>Lateral Area = $\text{Pi}RS$</p> <p>Total Area = $\text{Pi}R^2 + \text{Pi}RS$</p>	$\text{Pi}R^2H/3$