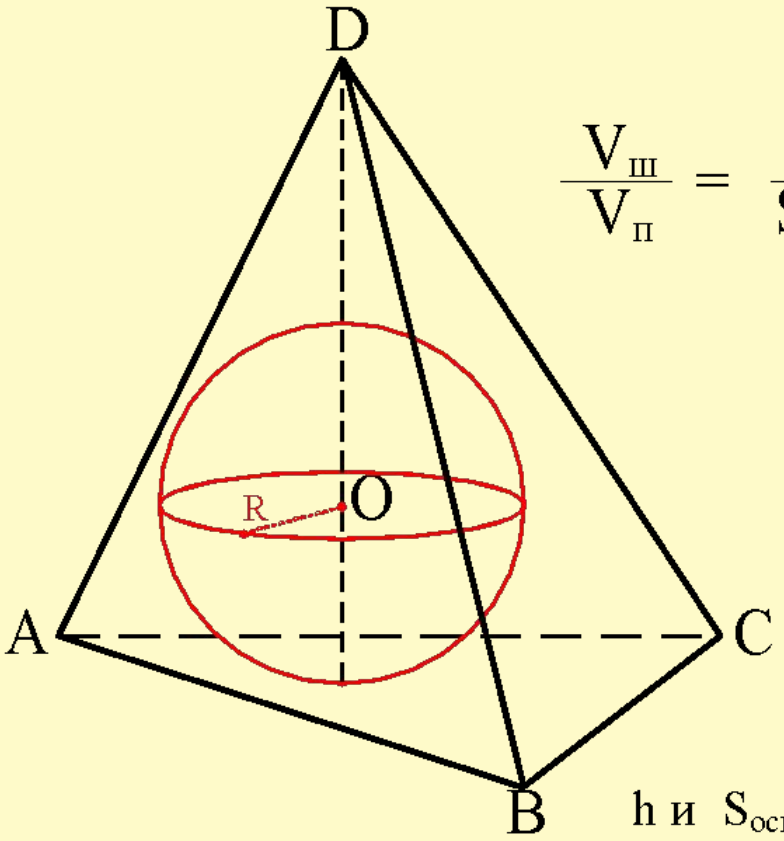
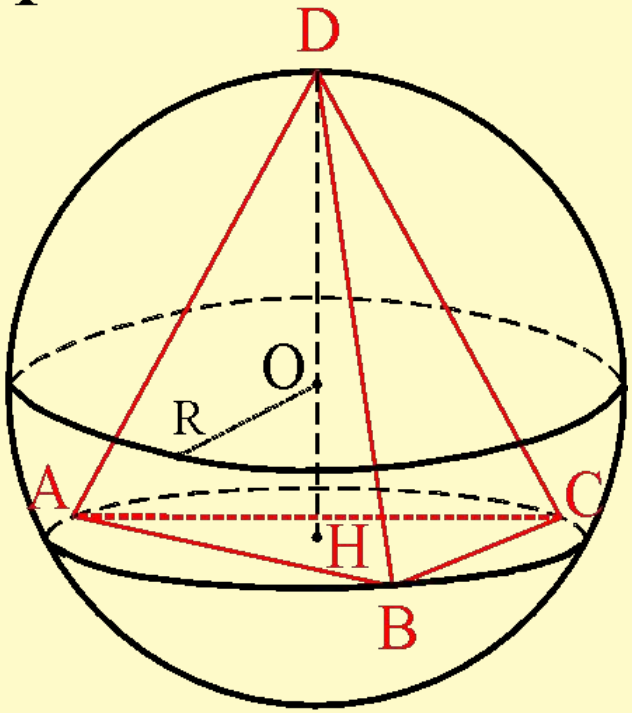
Пирамида и шар



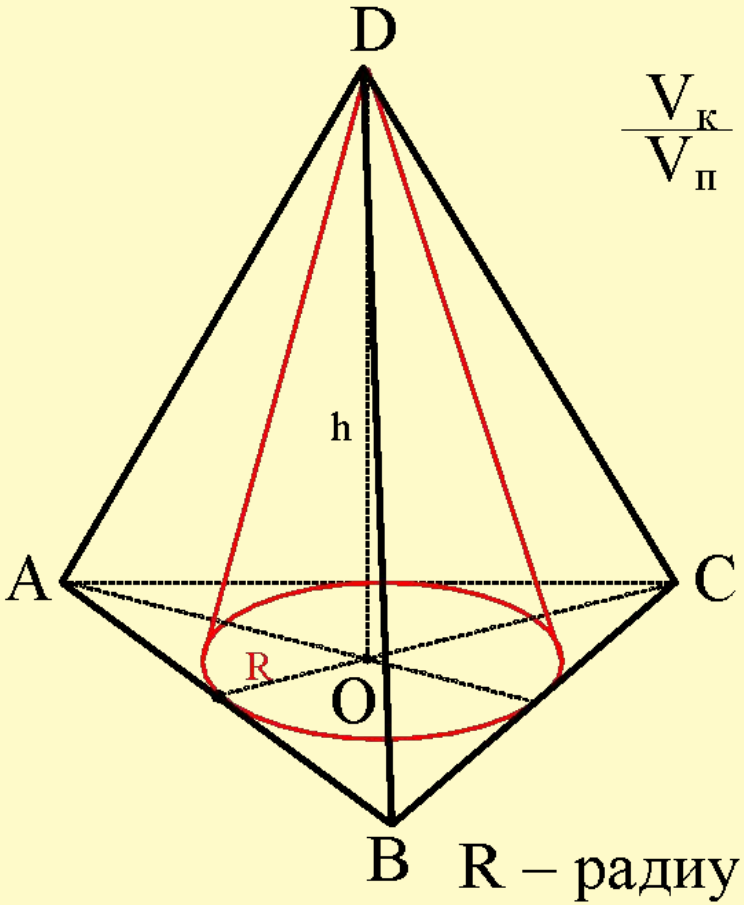
$$\frac{V_{ш}}{V_{п}} = \frac{4\pi R^3}{S_{ABC} \cdot h}$$



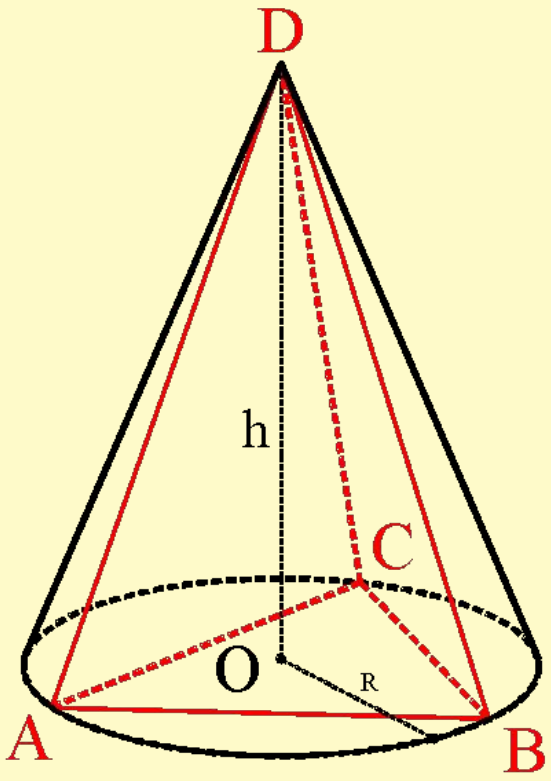
h и $S_{осн}$ – высота пирамиды и площадь ее основания соответственно;

R – радиус шара.

Пирамида и конус



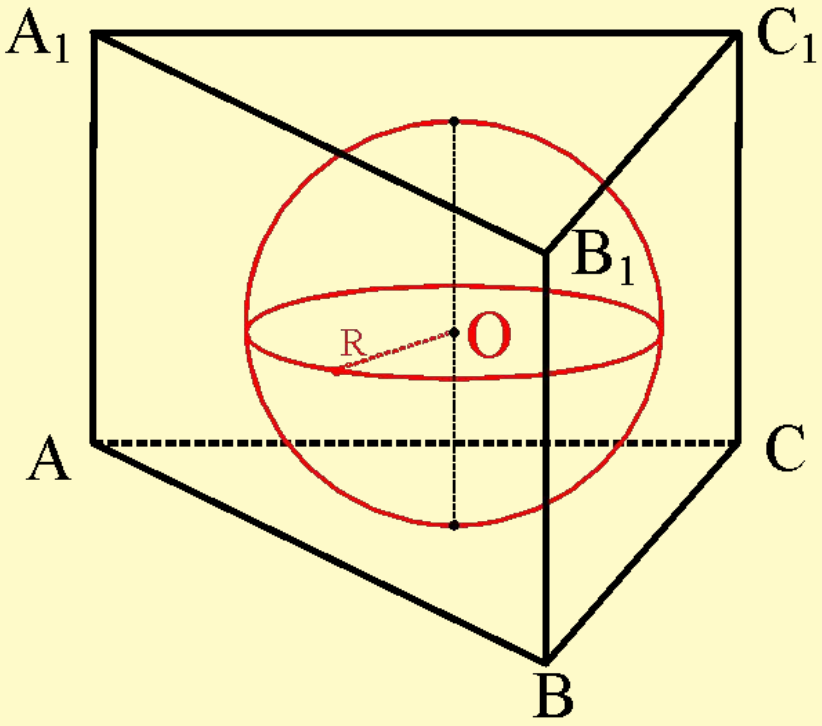
$$\frac{V_к}{V_п} = \frac{\pi R^2}{S_{ABC}}$$

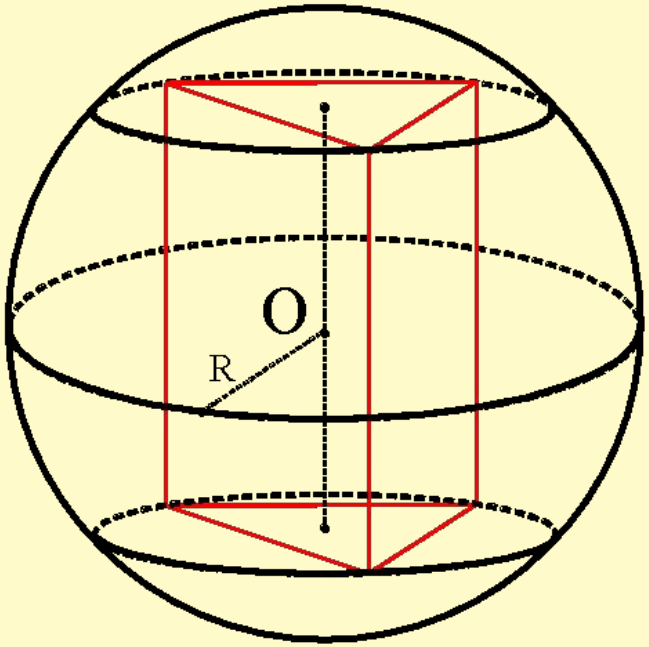


R – радиус основания конуса

h – высота конуса и пирамиды

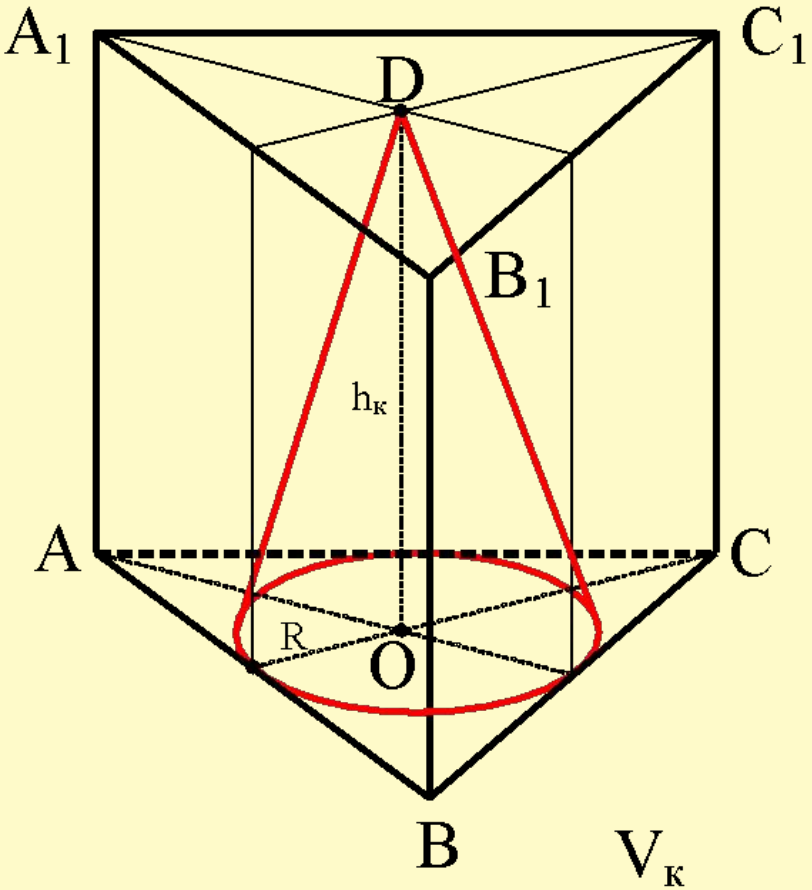
Призма и шар

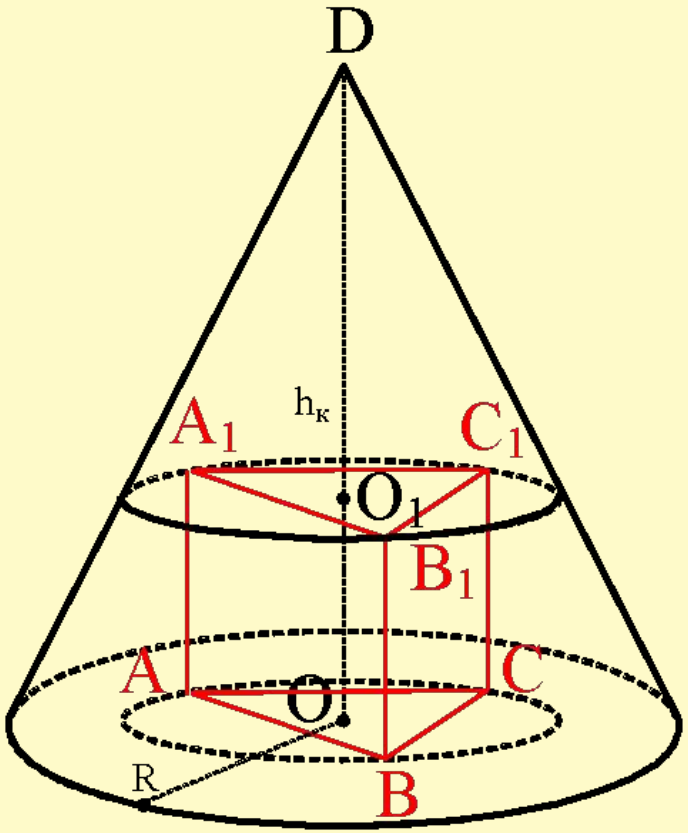




$$\frac{V_к}{V_п} = \frac{4\pi R^3}{3S_{ABC} \cdot h}$$

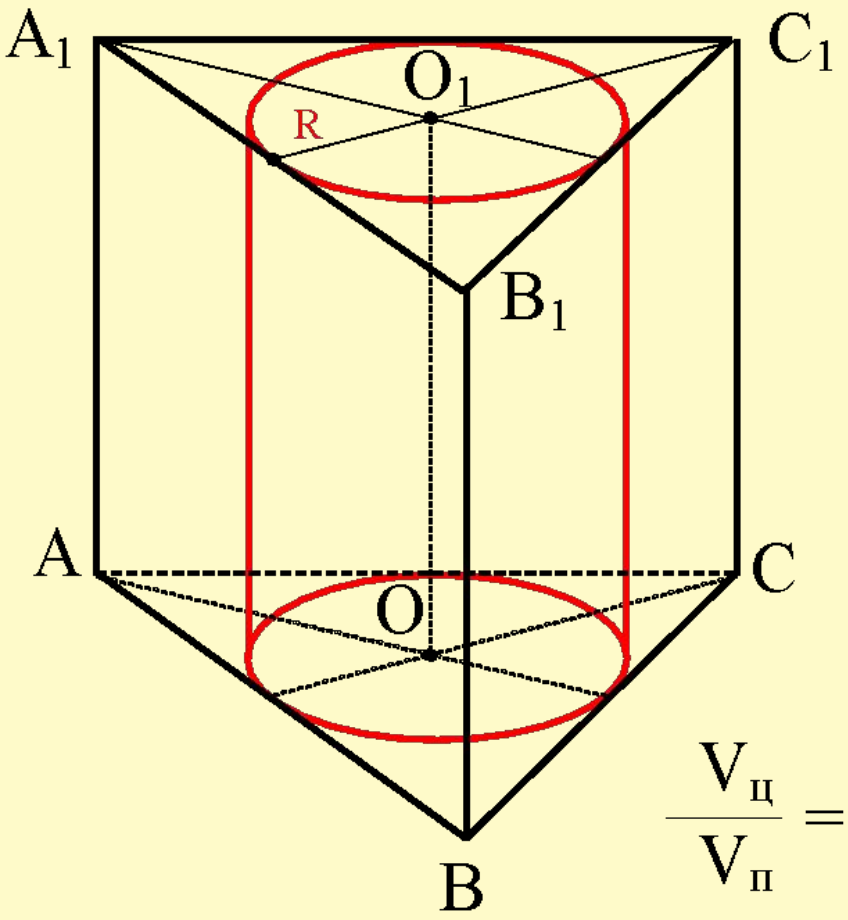
Призма и конус



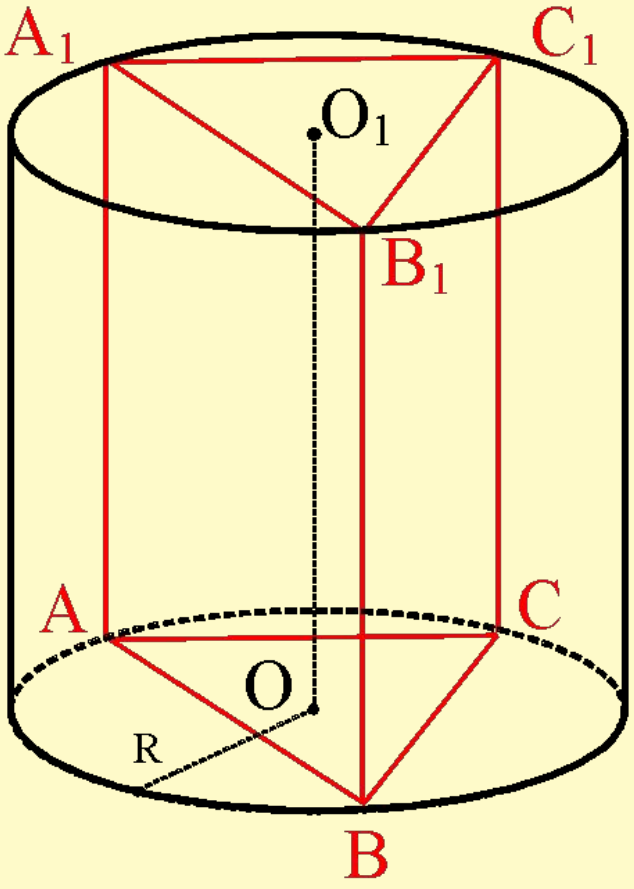


$$\frac{V_к}{V_п} = \frac{\pi R^2 \cdot h_k}{3S_{ABC} \cdot h_п}$$

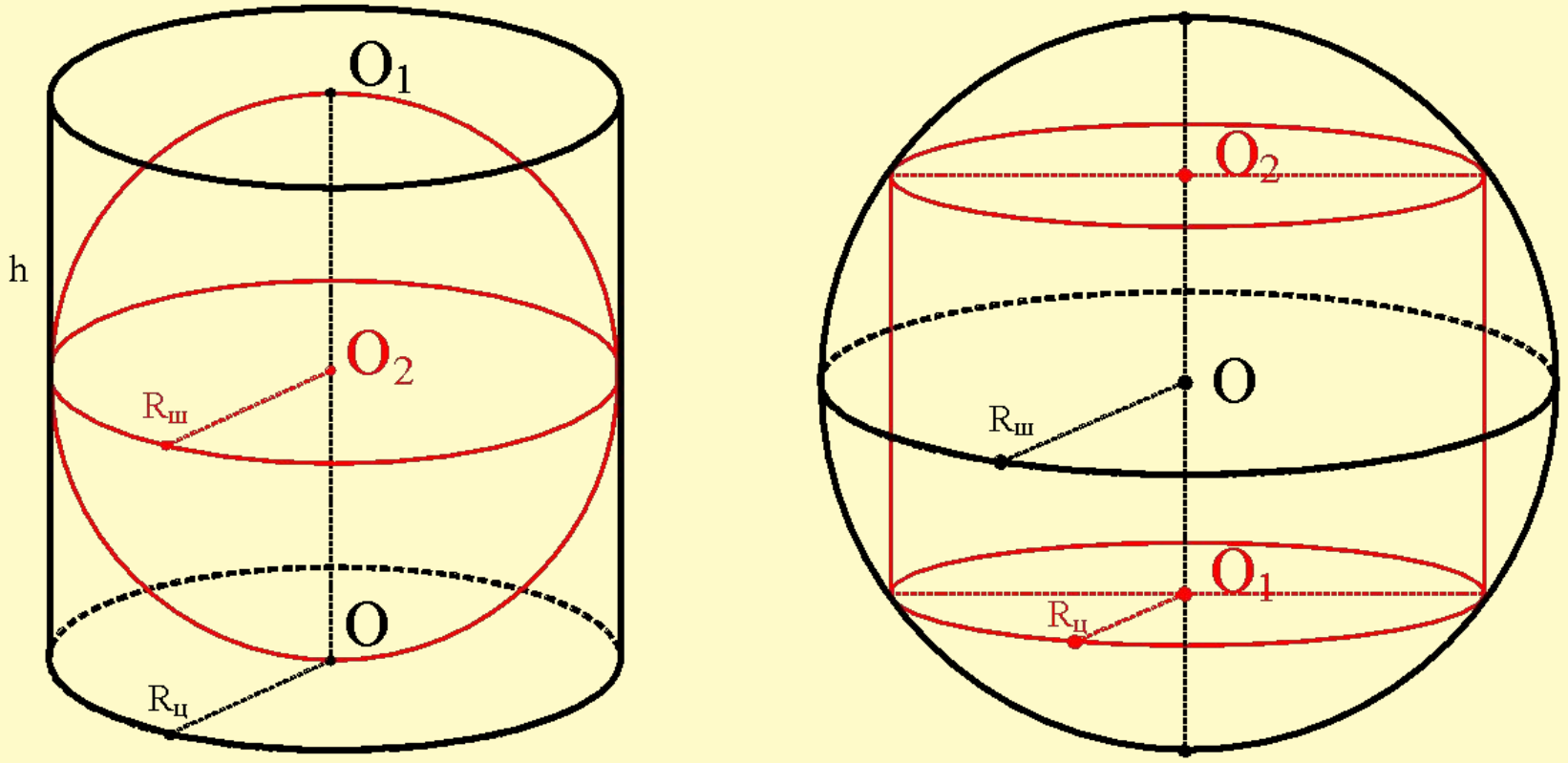
Призма и цилиндр



$$\frac{V_{ц}}{V_{п}} = \frac{\pi R^2}{S_{ABC}}$$

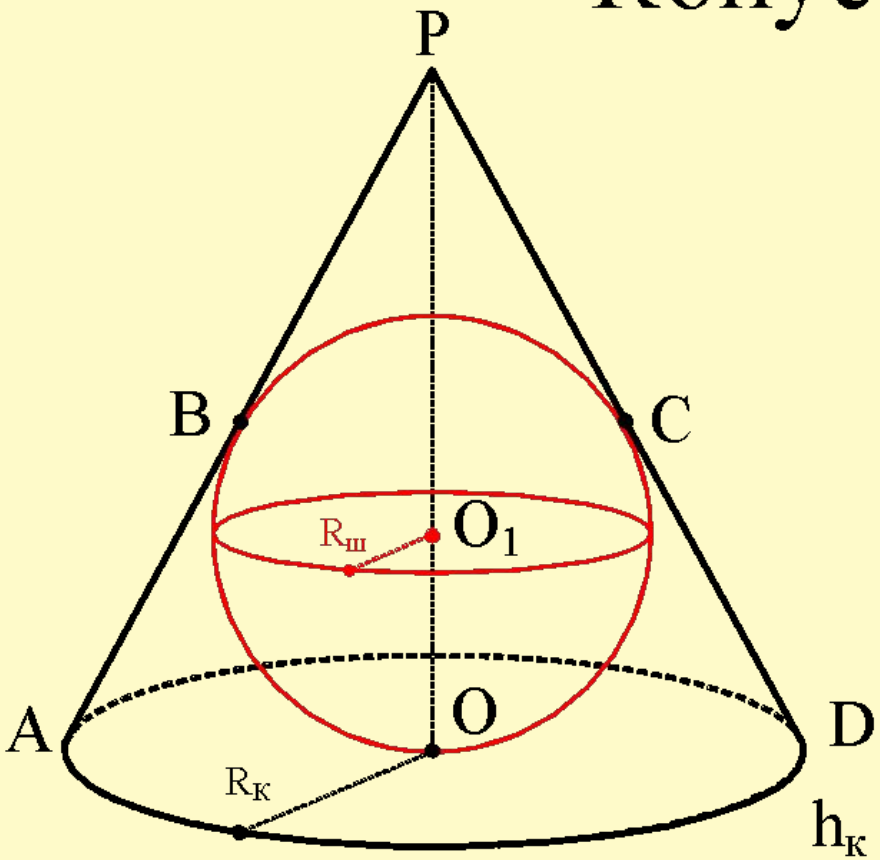


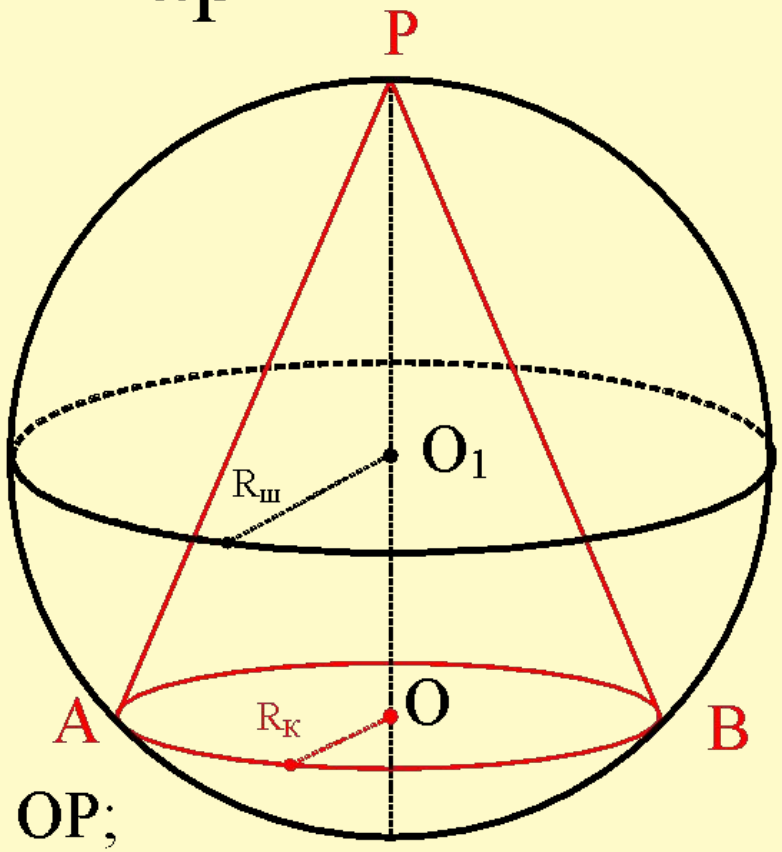
Цилиндр и шар



$$\frac{V_ш}{V_ц} = \frac{4R_ш^{\,3}}{3R_ц^{\,2}\cdot h}$$

Конус и шар

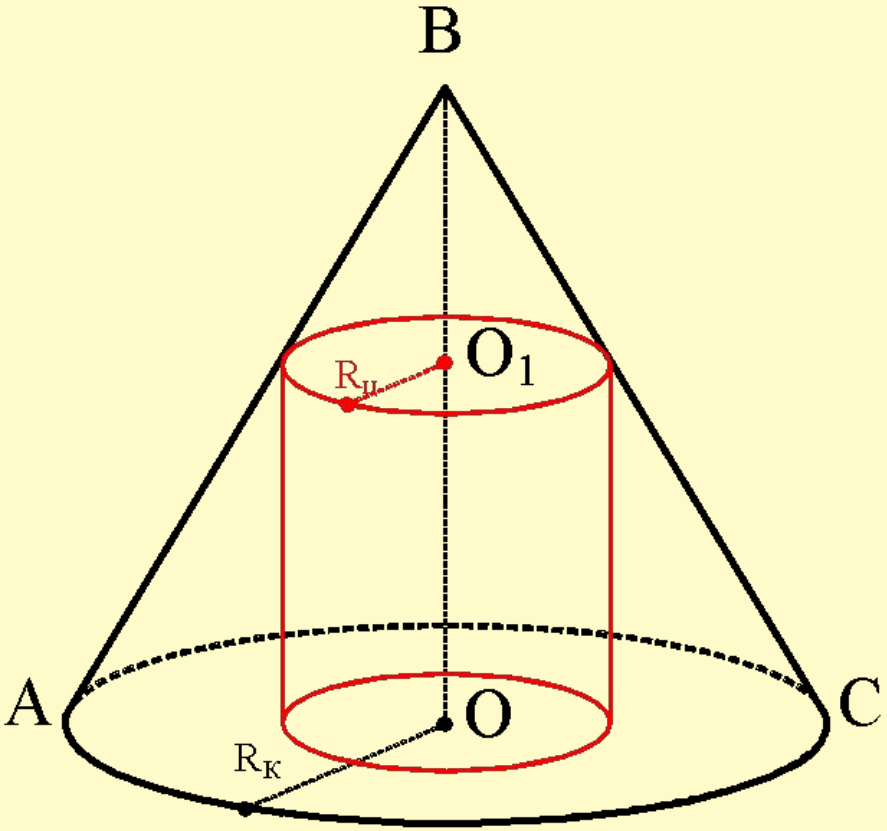


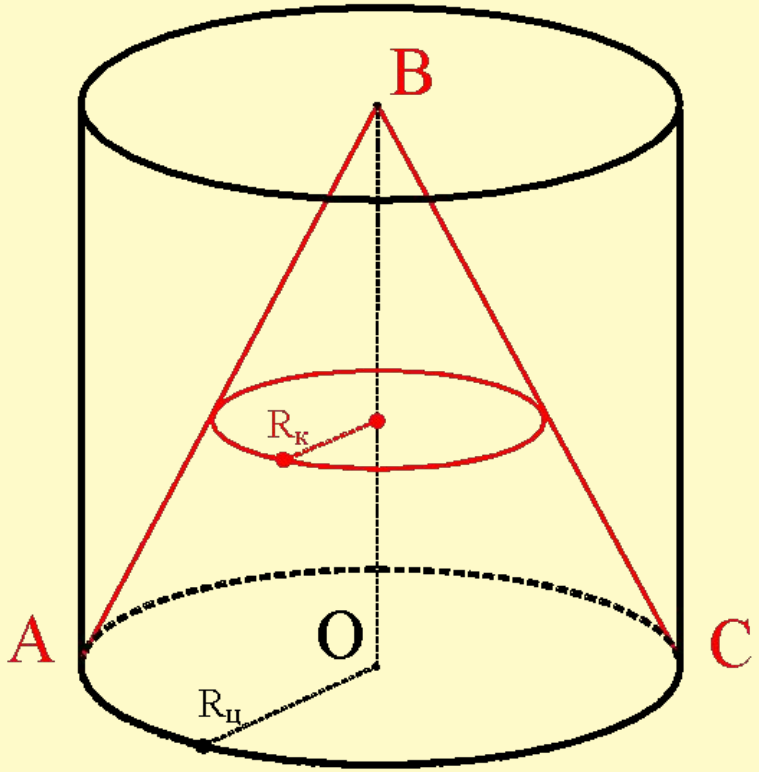


$h_к = OP;$

$$\frac{V_ш}{V_к} = \frac{4R_ш^3}{h_К \cdot R_к^2}$$

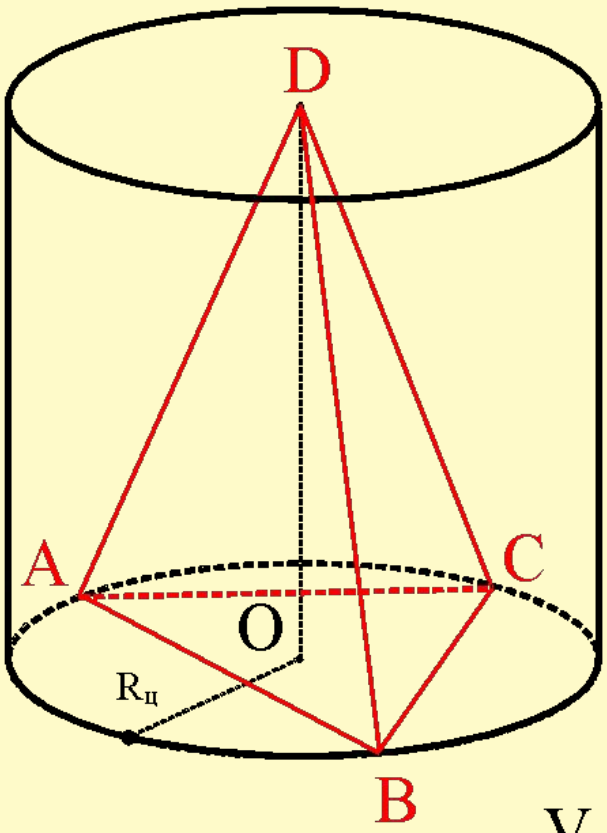
Цилиндр и конус

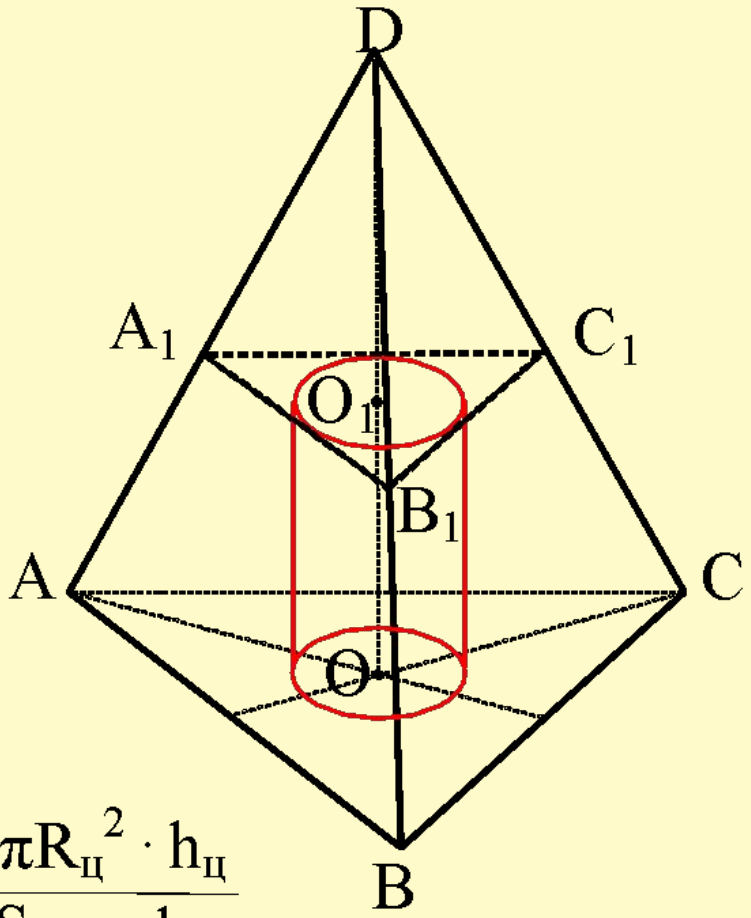




$$\frac{V_к}{V_ц} = \frac{R_к^2 \cdot h_к}{3R_ц^2 \cdot h_ц}$$

Цилиндр и пирамида





$$\frac{V_ц}{V_п} = \frac{3\pi R_ц^{\,2} \cdot h_ц}{S_{ABC} \cdot h_k}$$