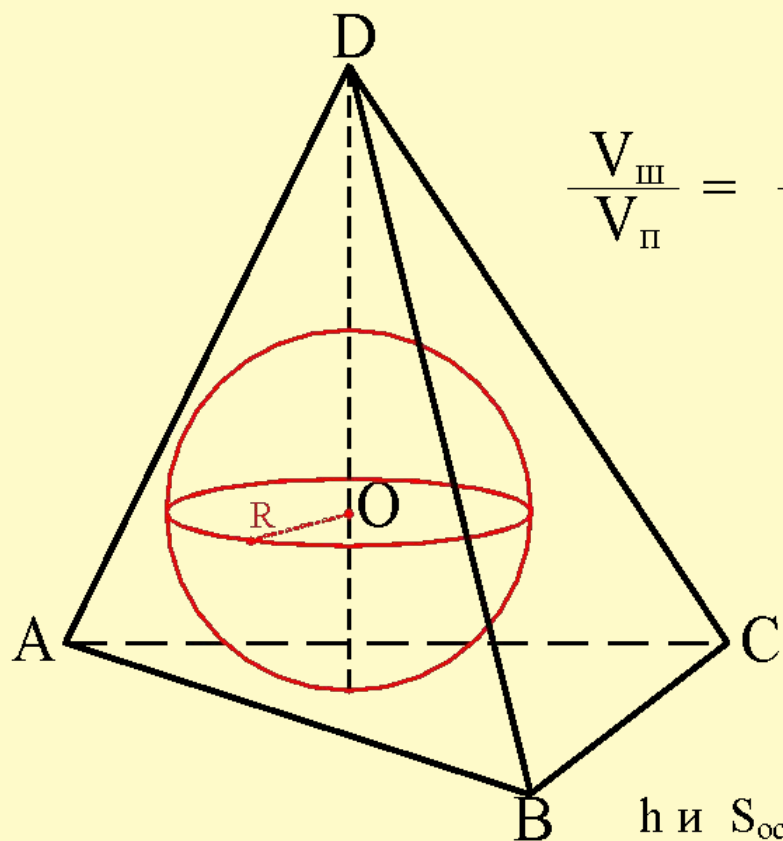
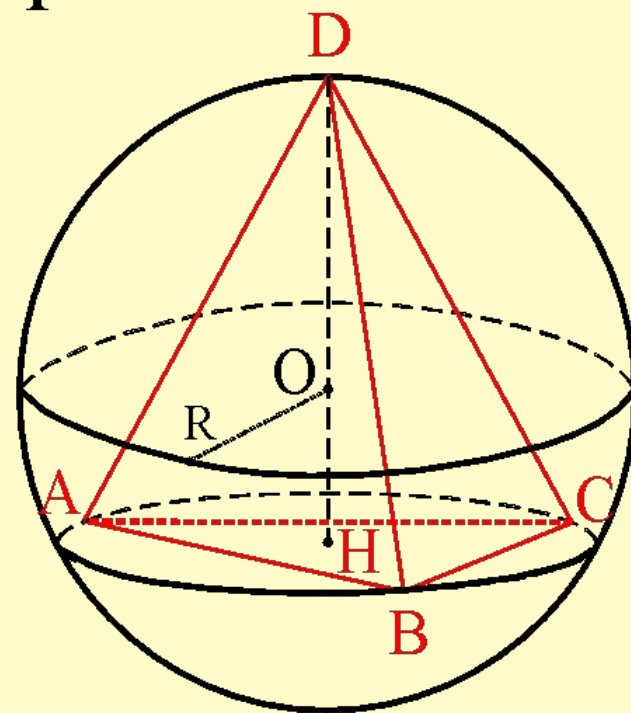


# Пирамида и шар



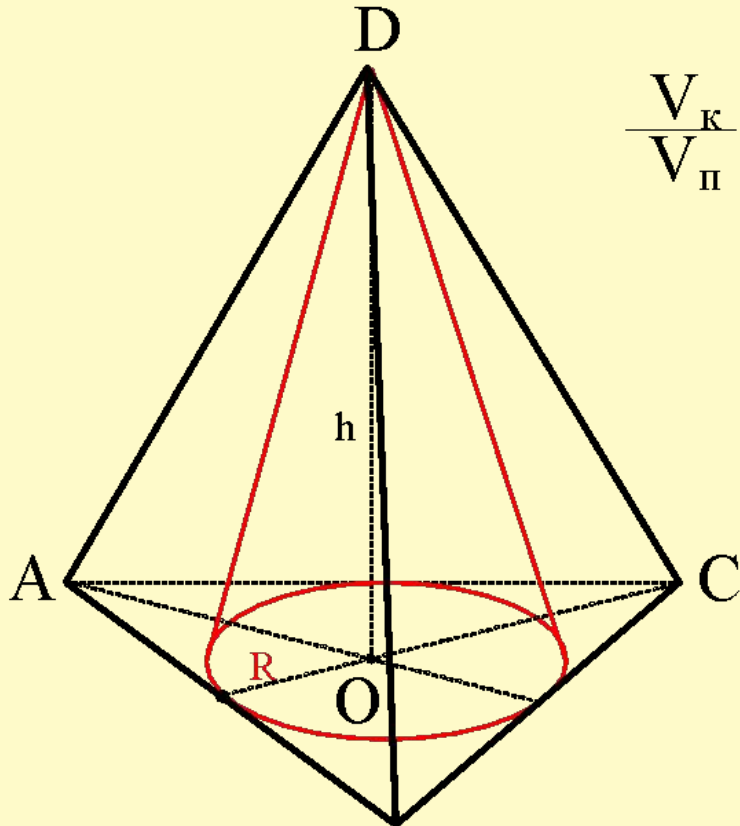
$$\frac{V_{\text{III}}}{V_{\text{II}}} = \frac{4\pi R^3}{S_{ABC} \cdot h}$$



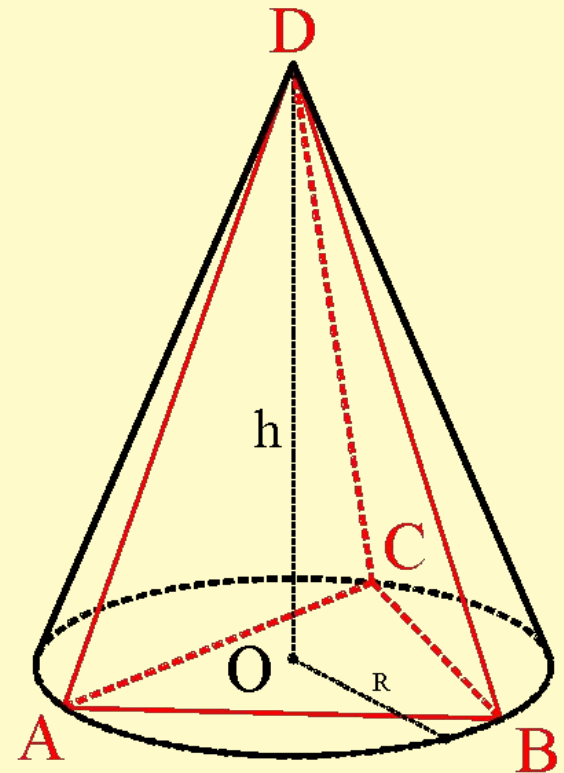
$h$  и  $S_{\text{осн}}$  – высота пирамиды и площадь ее основания соответственно;

$R$  – радиус шара.

# Пирамида и конус

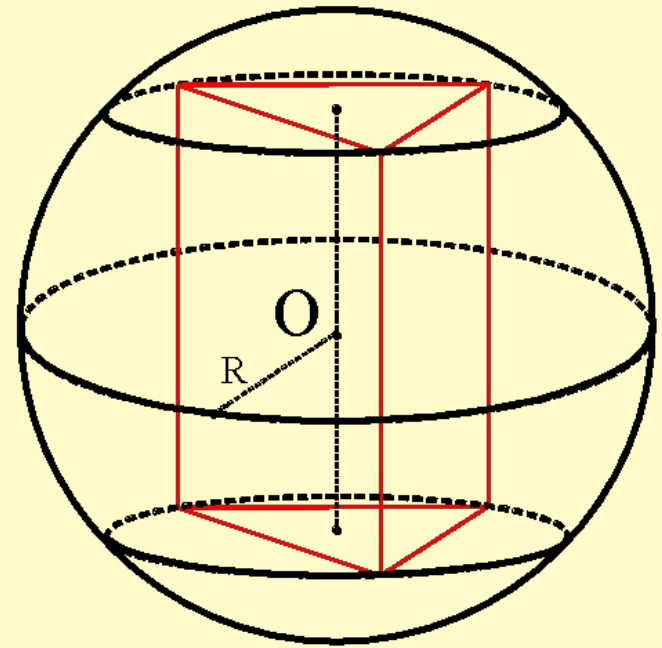
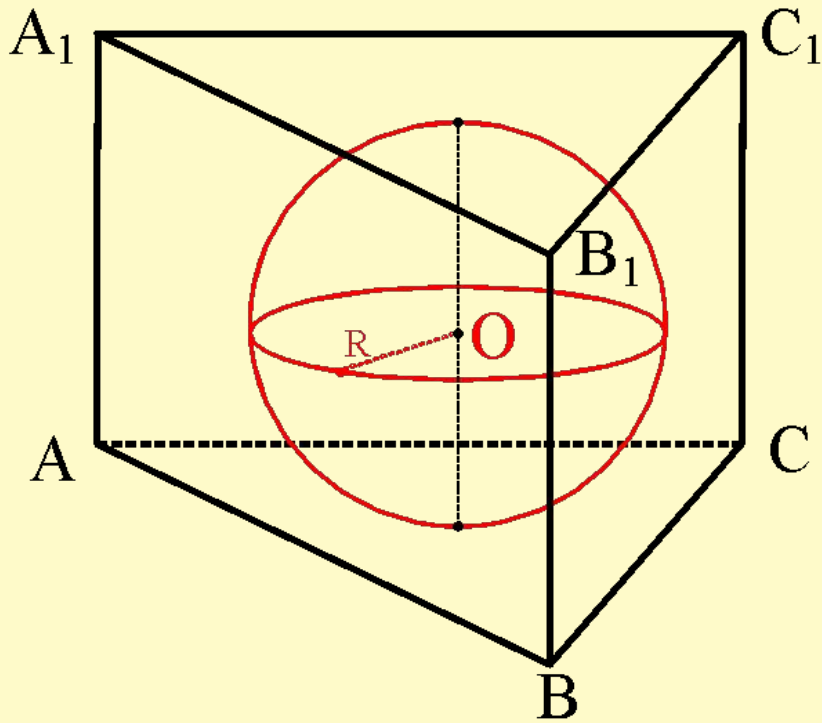


$$\frac{V_{\text{к}}}{V_{\text{п}}} = \frac{\pi R^2}{S_{\text{ABC}}}$$



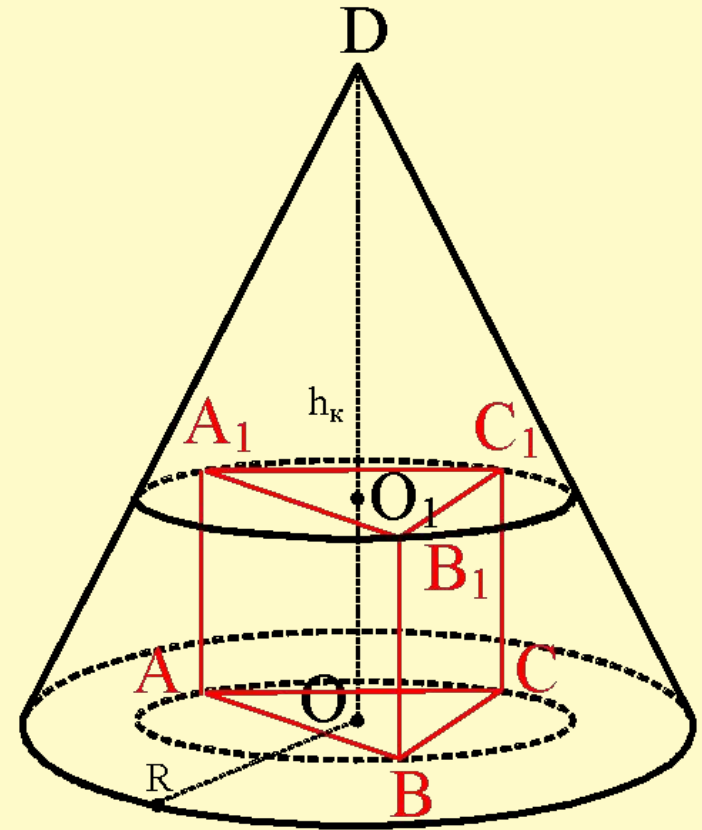
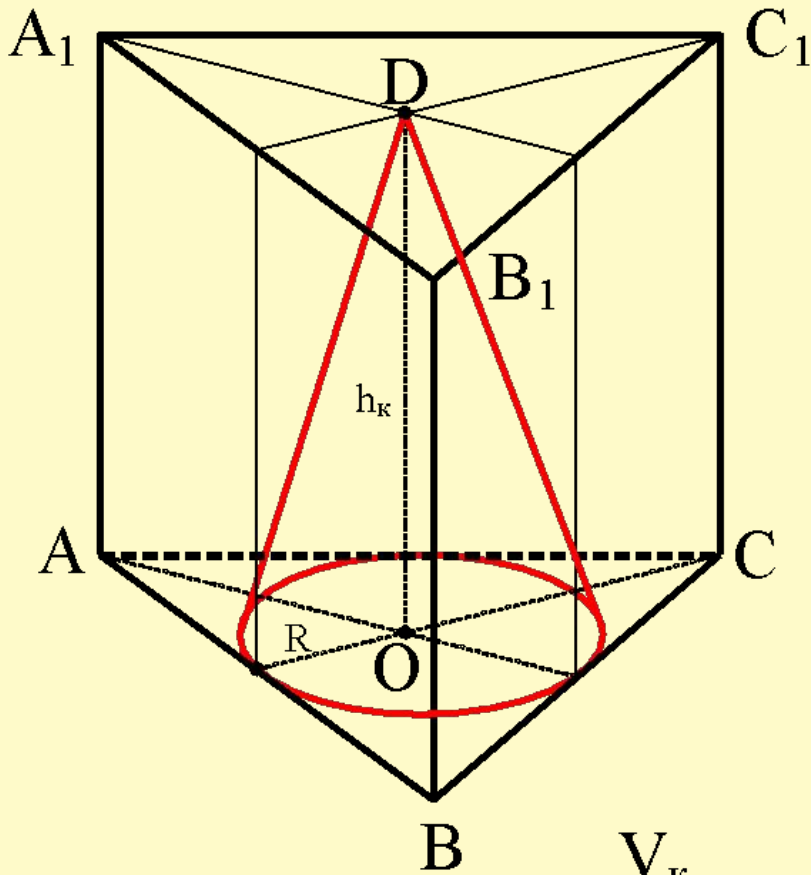
$R$  – радиус основания конуса  
 $h$  – высота конуса и пирамиды

# Призма и шар



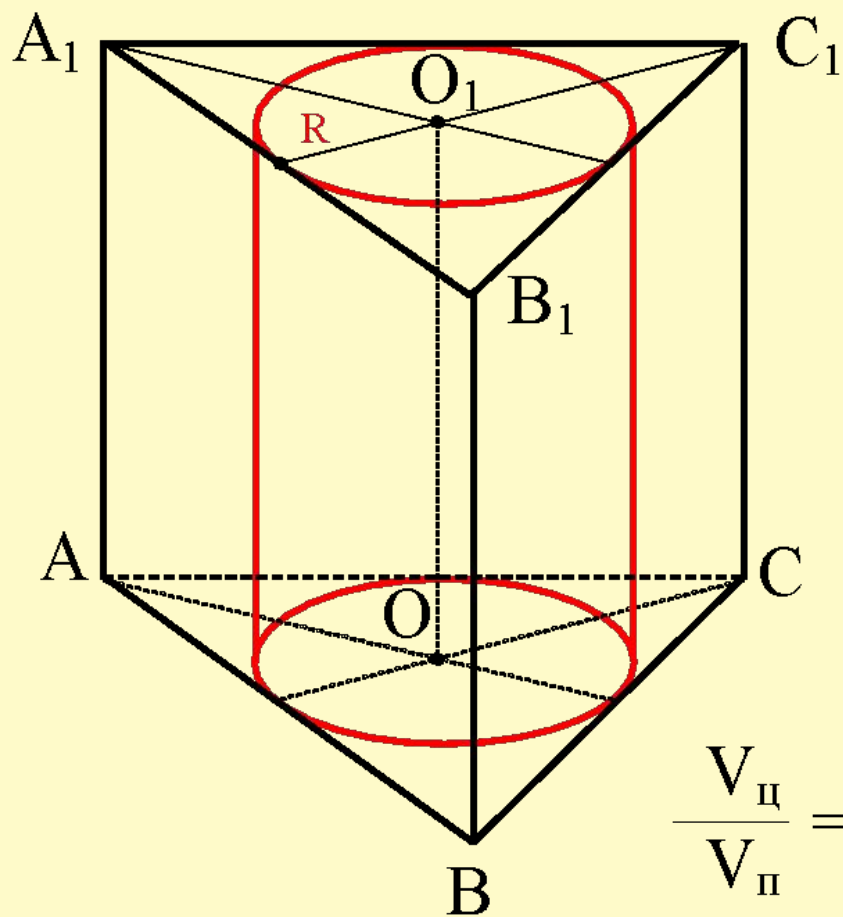
$$\frac{V_{\text{к}}}{V_{\text{п}}} = \frac{4\pi R^3}{3S_{\text{ABC}} \cdot h}$$

# Призма и конус

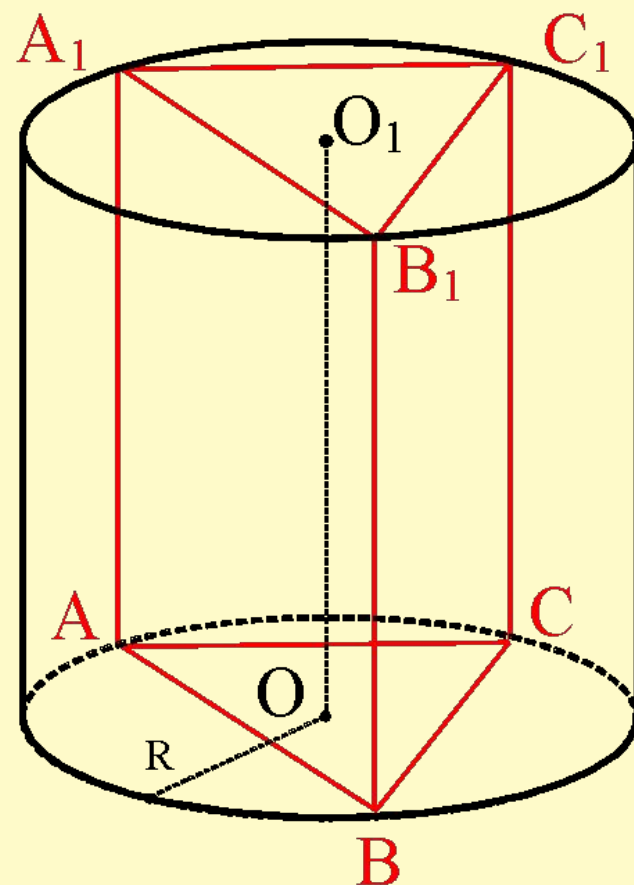


$$\frac{V_k}{V_{\Pi}} = \frac{\pi R^2 \cdot h_k}{3S_{ABC} \cdot h_{\Pi}}$$

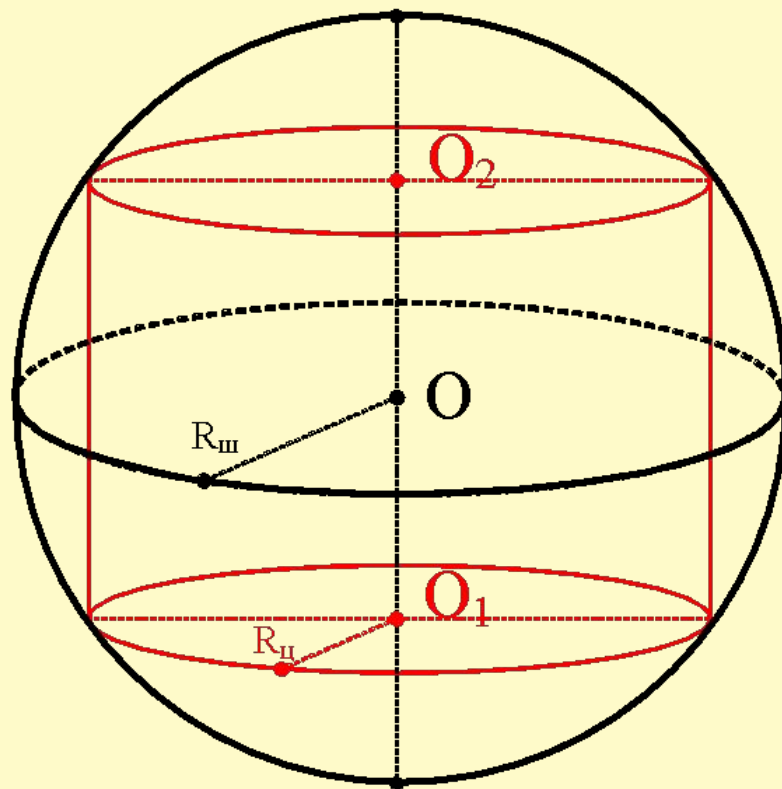
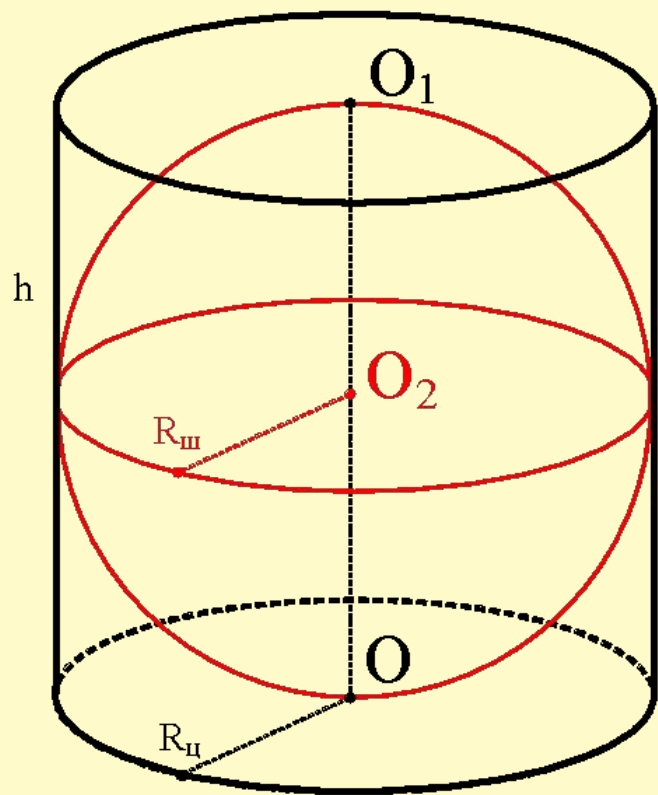
# Призма и цилиндр



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

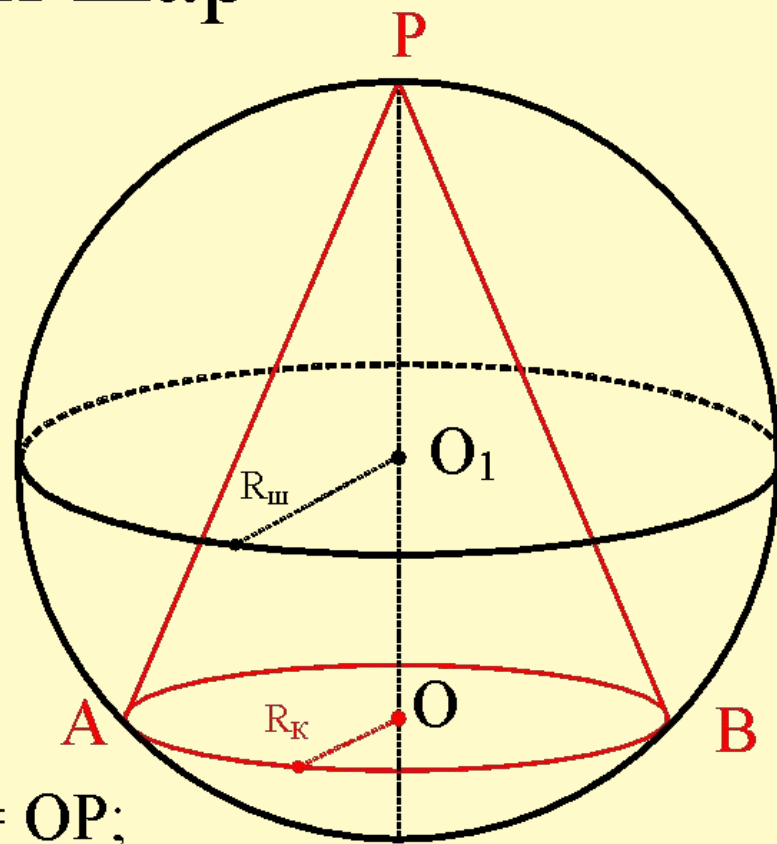
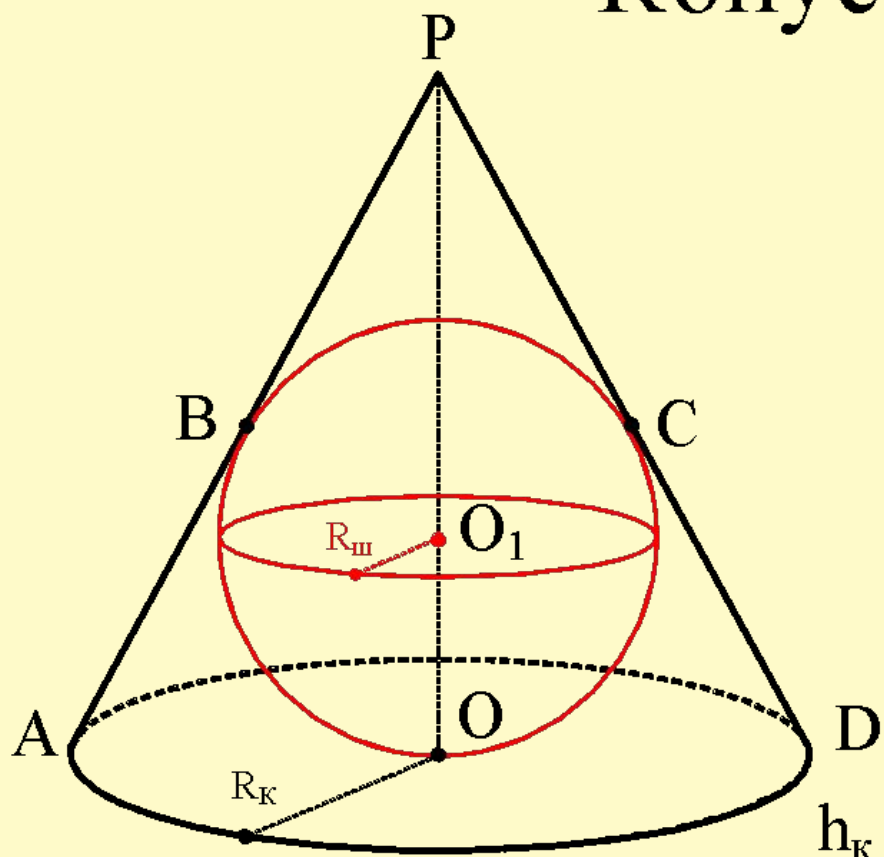


# Цилиндр и шар



$$\frac{V_{\text{ш}}}{V_{\text{ц}}} = \frac{4R_{\text{ш}}^3}{3R_{\text{ц}}^2 \cdot h}$$

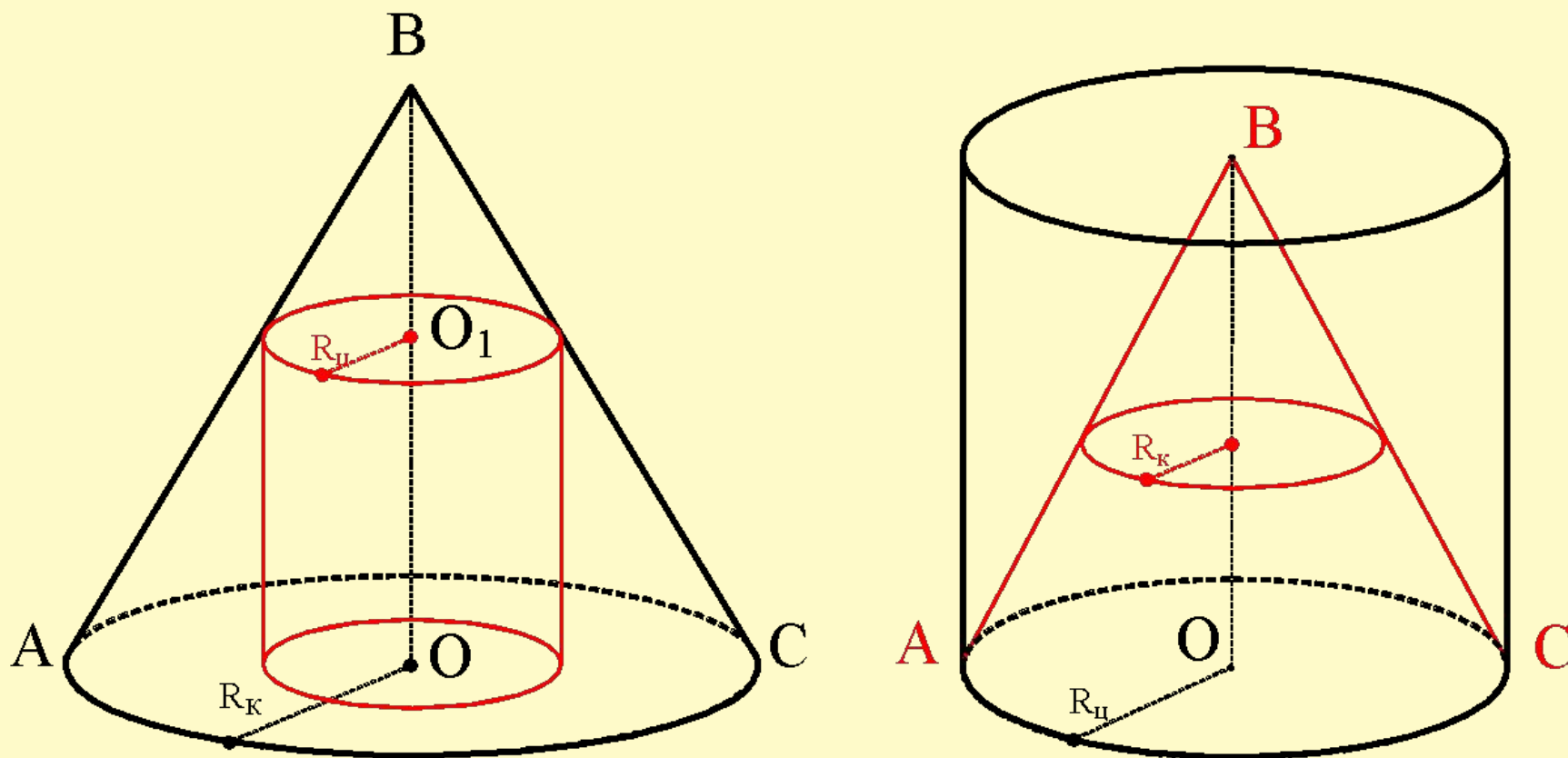
# Конус и шар



$$h_{\text{к}} = OP;$$

$$\frac{V_{\text{ш}}}{V_{\text{к}}} = \frac{4R_{\text{ш}}^3}{h_{\text{к}} \cdot R_{\text{к}}^2}$$

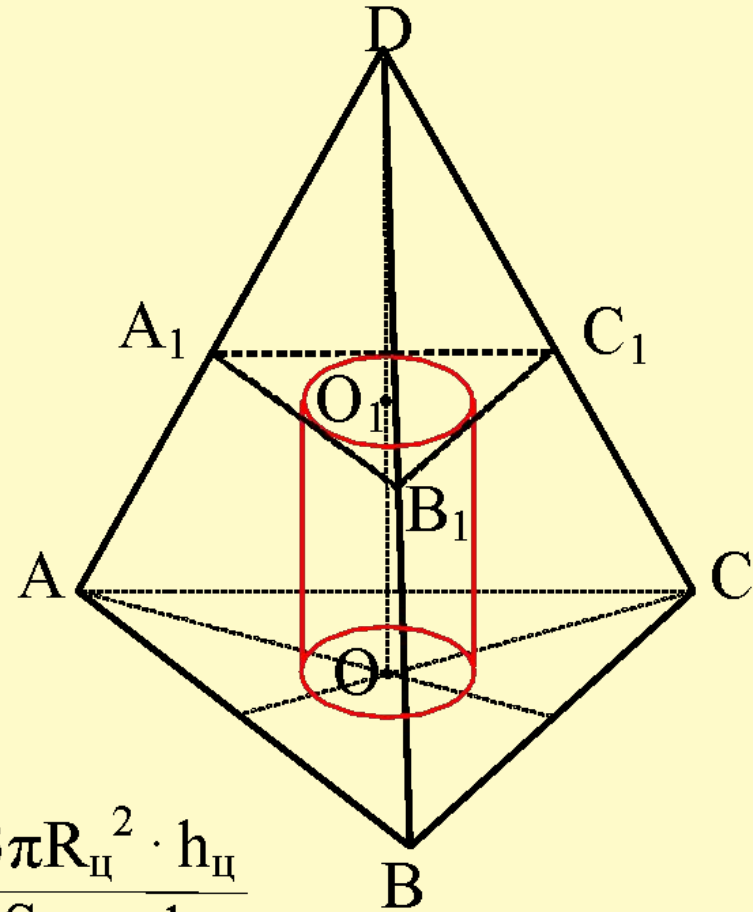
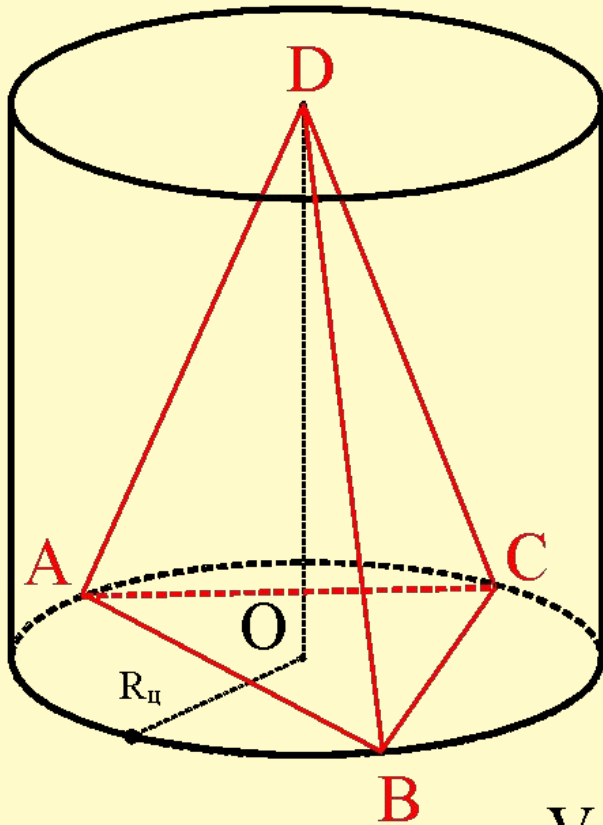
# Цилиндр и конус



$$\frac{V_{\text{к}}}{V_{\text{ц}}} = \frac{R_{\text{к}}^2 \cdot h_{\text{к}}}{3R_{\text{ц}}^2 \cdot h_{\text{ц}}}$$



# Цилиндр и пирамида



$$\frac{V_{\text{ц}}}{V_{\text{п}}} = \frac{3\pi R_{\text{ц}}^2 \cdot h_{\text{ц}}}{S_{\text{ABC}} \cdot h_{\text{к}}}$$