

Моделирование геометрических тел



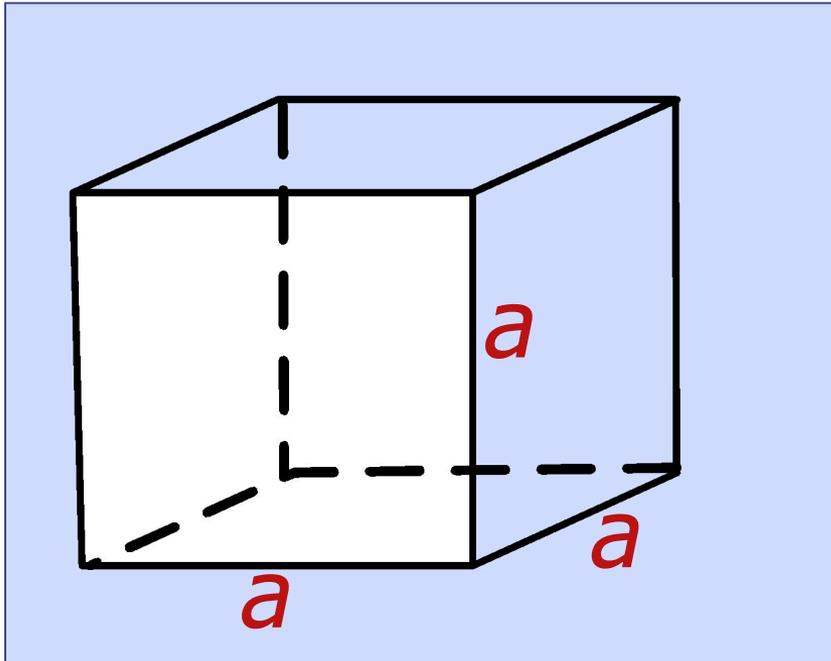
Голубева Катерина,

7 класс

Руководитель Голубева М.

Д.

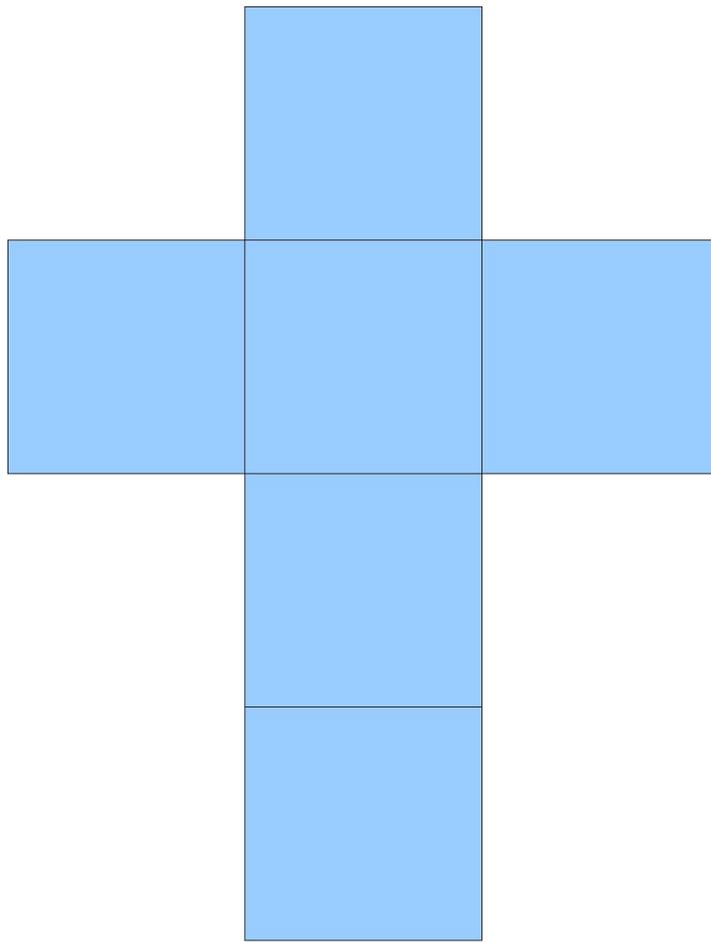
Куб



1 литр

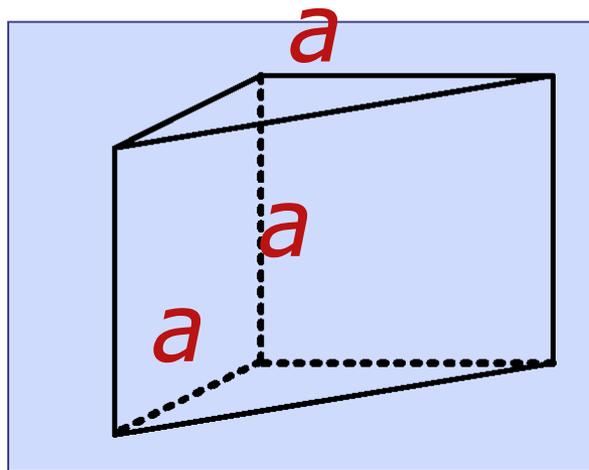
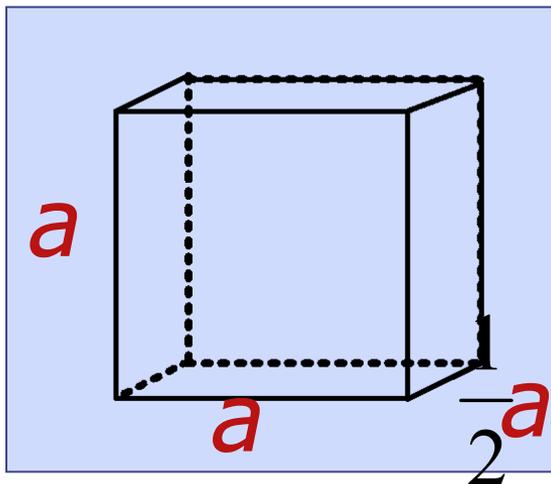
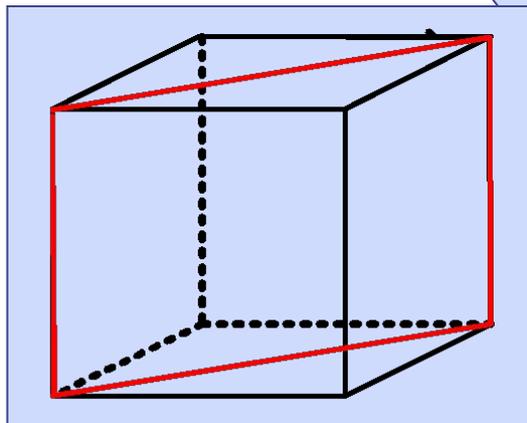
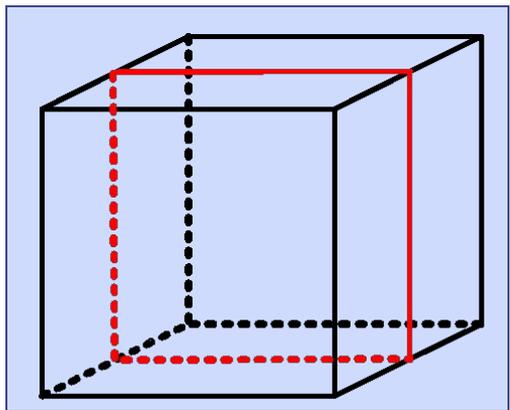
$$V_{\text{куба}} = a^3$$

Развертка куба



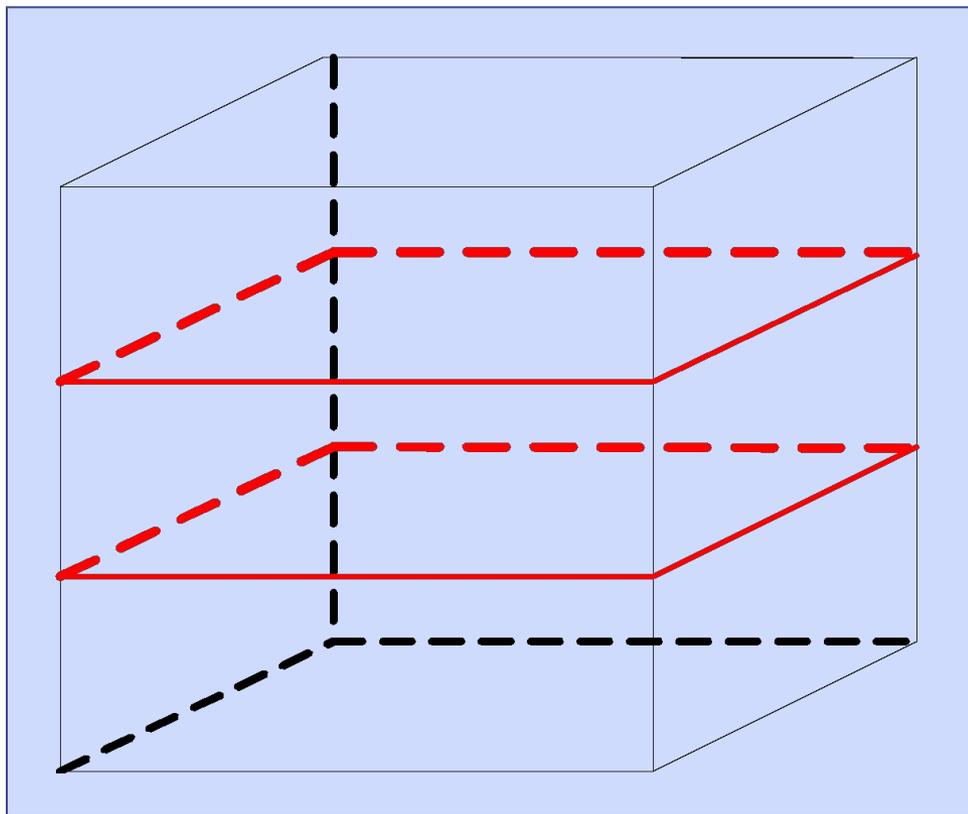
Призма

$\frac{1}{2}$ литра

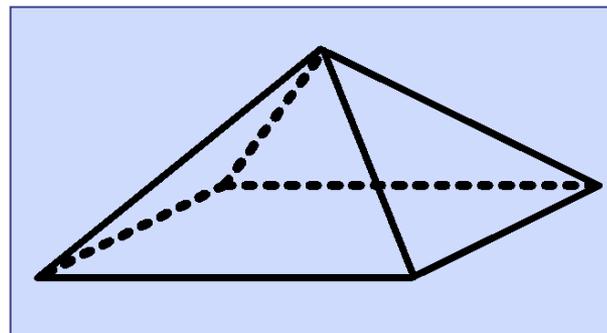
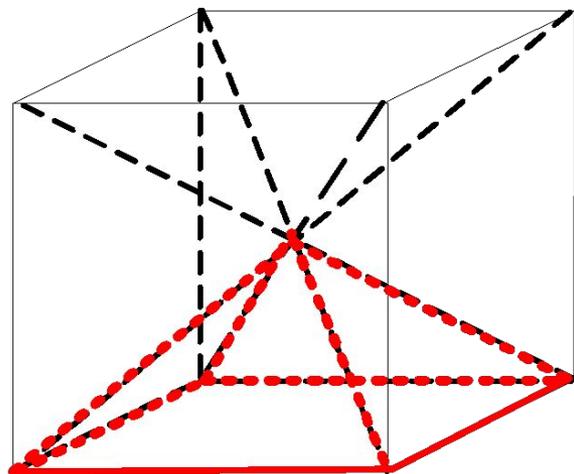


$$V = \frac{1}{2} a^3$$

$\frac{1}{3}$ литра



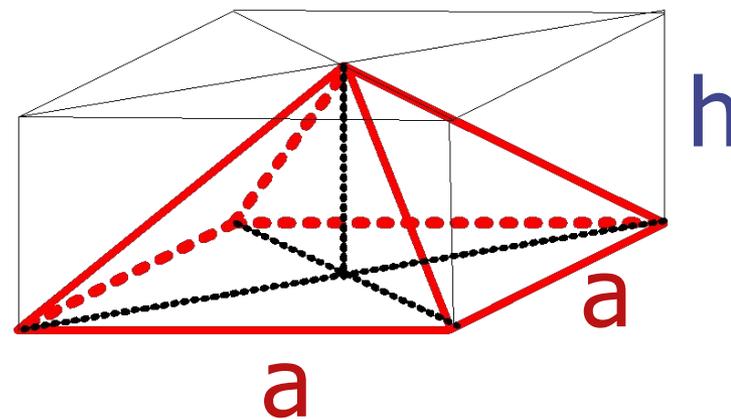
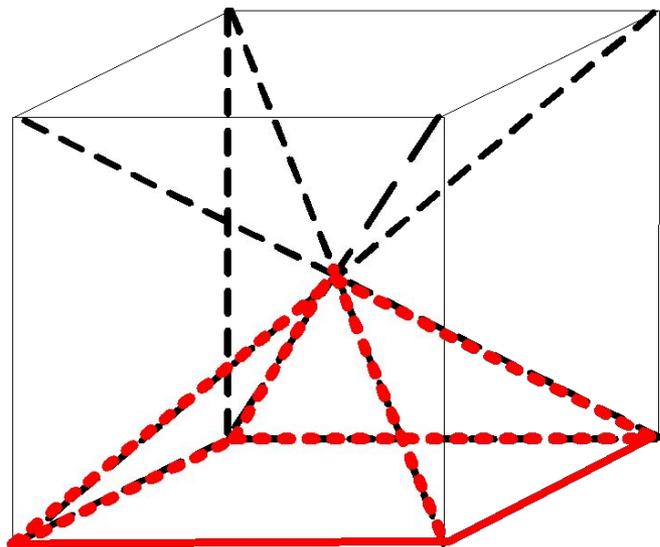
Пирамида



$$V_{\text{пирамиды}} = \frac{1}{6} V_{\text{куба}}$$

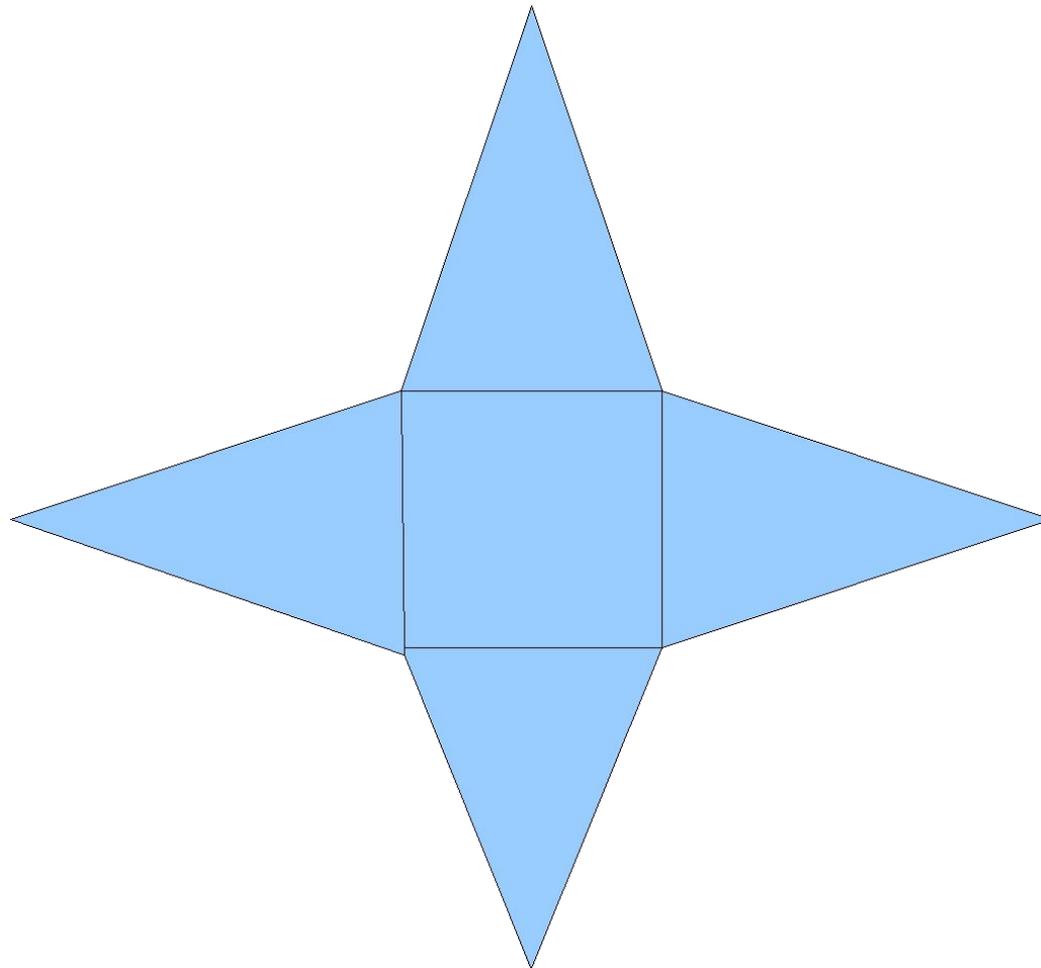
Пирамида

$\frac{1}{3}$ литра

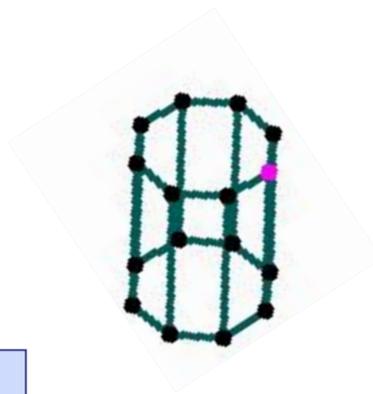


$$V_{\text{пирамиды}} = \frac{1}{3} S_{\text{осн}} * h$$

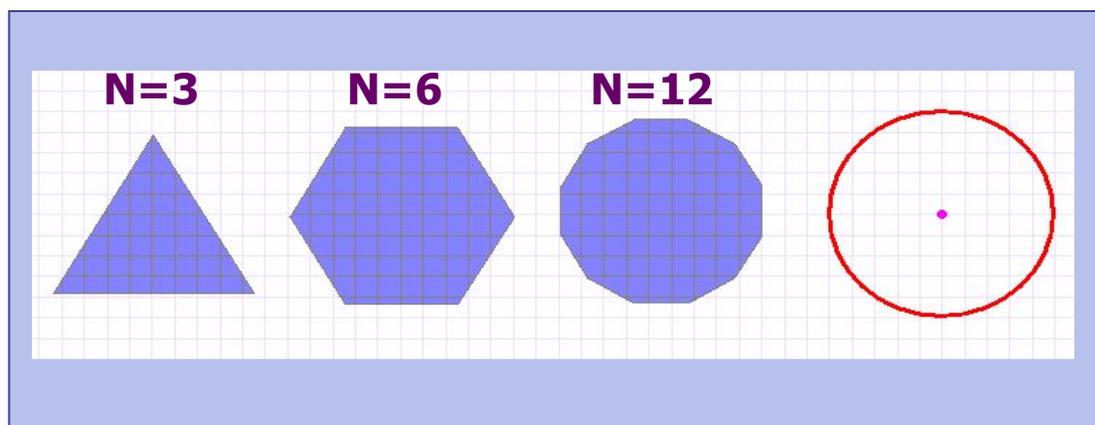
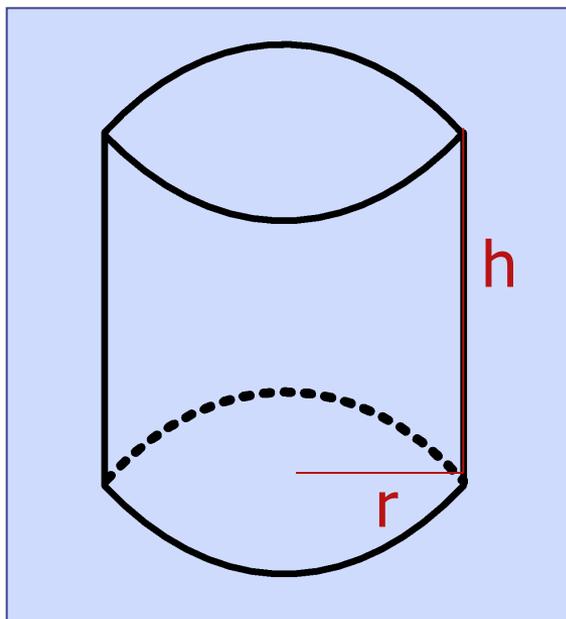
Развертка пирамиды



Цилиндр

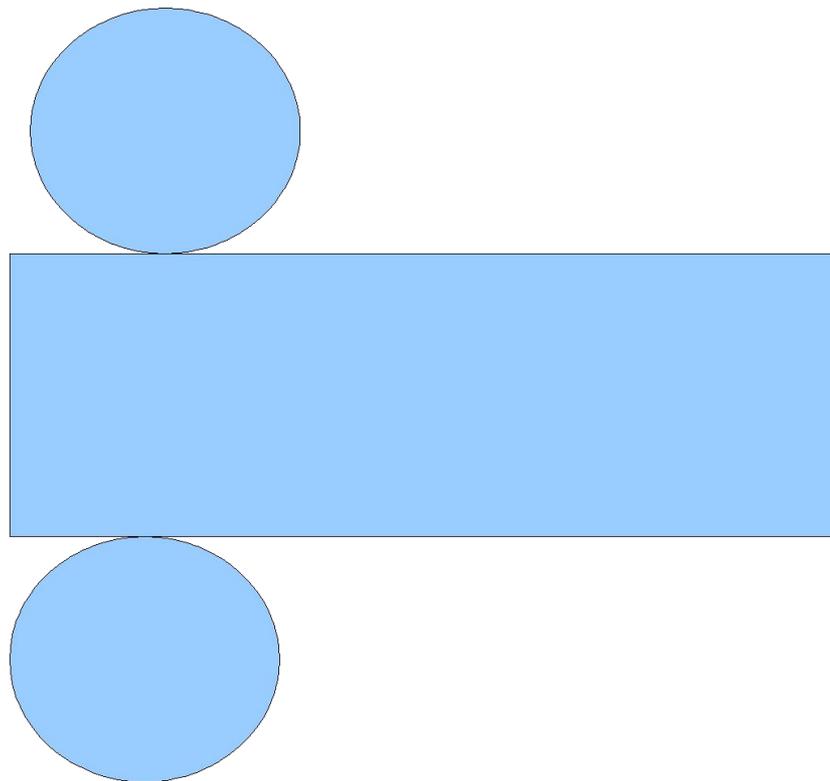


$\frac{1}{4}$ литра

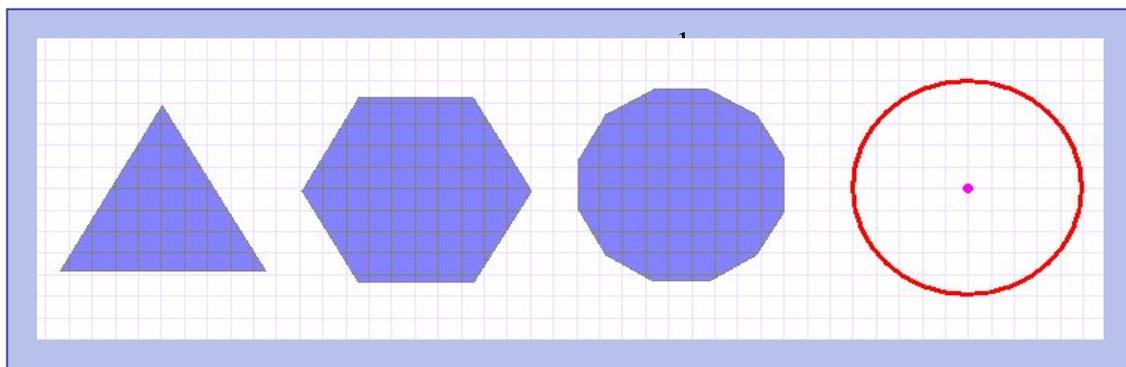
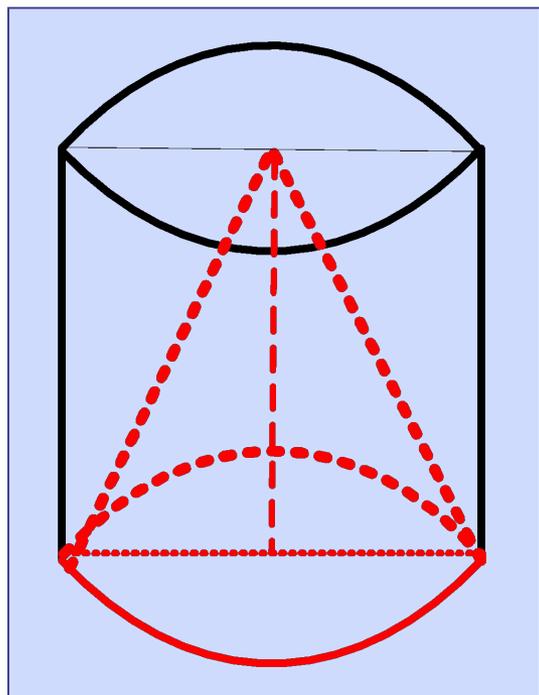


$$V_{\text{цилиндра}} = S_{\text{осн}} * h = \pi R^2 h$$

Развертка цилиндра



Конус



$$V_{\text{конуса}} = \frac{1}{3} S_{\text{осн}} * h = \frac{1}{3} \pi R^2 h$$

Сравним формулы:

$$V_{\text{призма}} = Sh$$

$$V_{\text{цилиндр}} = Sh$$

$$V_{\text{пирамида}} = \frac{1}{3} Sh$$

$$V_{\text{конус}} = \frac{1}{3} Sh$$

Геометрическое тело	Объем
Куб	$V=a^3$
Призма	$V=Sh$
Пирамида	$V=\frac{1}{3}Sh$
Цилиндр	$V=Sh$
Конус	$V=\frac{1}{3}Sh$