☺ Всем привет! ☺

меня зовут Надежда
в 17:00
(по Москве)
начнём!

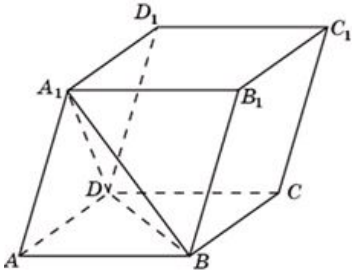
B11: Стереометрия

Probno.ru

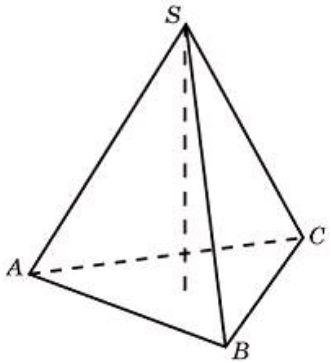
Задача B11: Стереометрия

Примеры:

1. *Объем параллелепипеда равен 9. Найдите объем треугольной пирамиды $ABDA_1$.*



2. Найдите высоту правильной треугольной пирамиды, стороны основания которой равны 2, а объем равен .



Probno.ru

Задача B11: Стереометрия

Проблема:

Куча фигур, куча формул…

КАК запомнить?

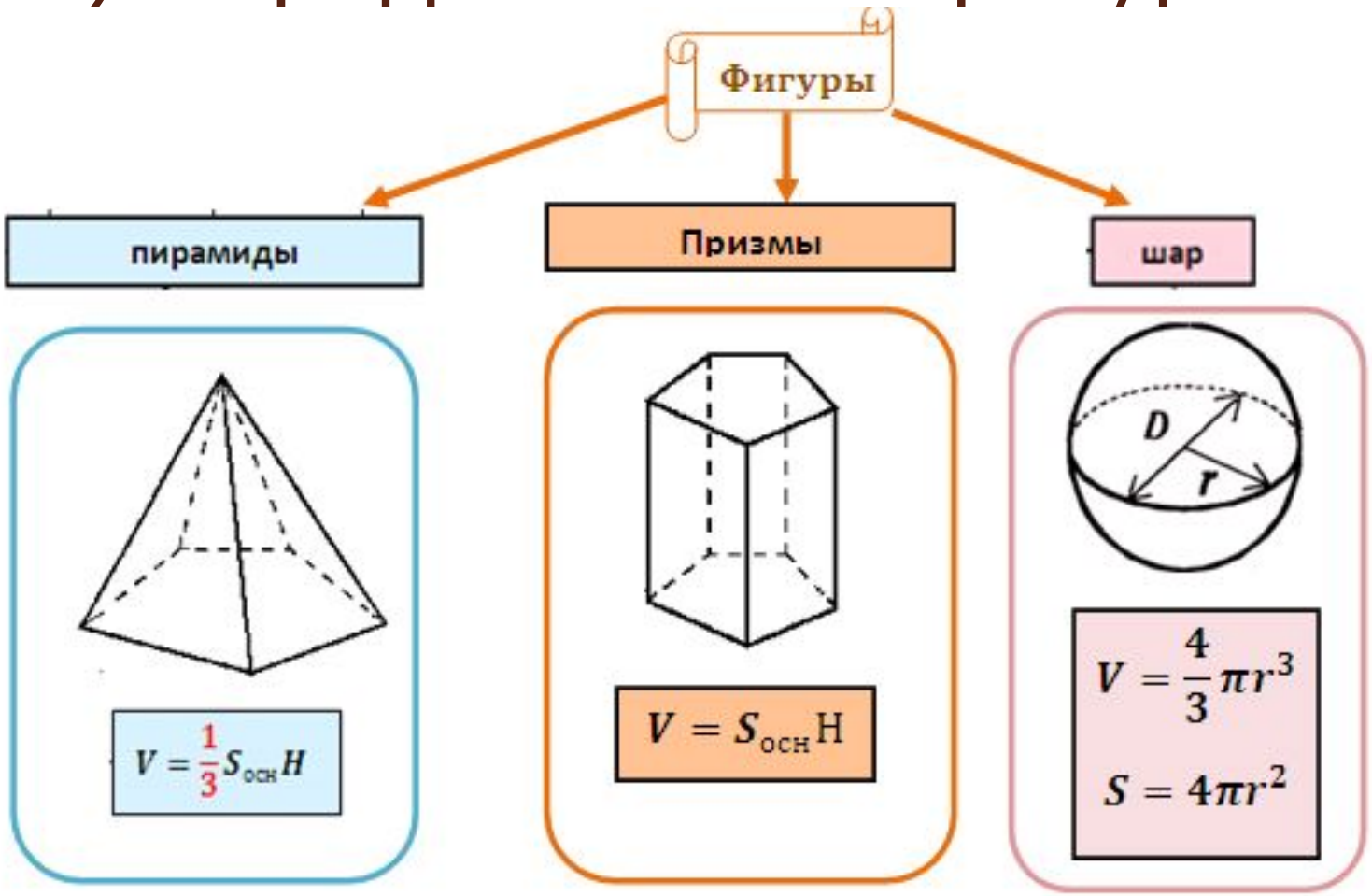
Решение:

1) Определить фигуру

2) Определить основание (S основания)

Probno.ru

1) Определяем тип фигуры:

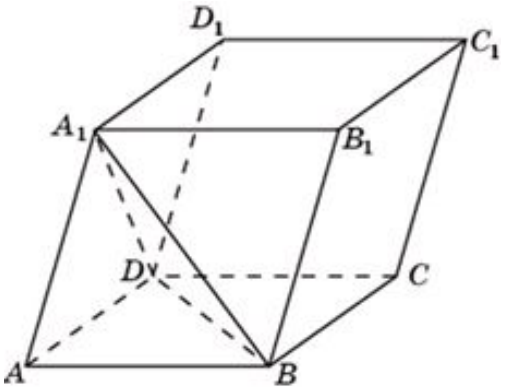


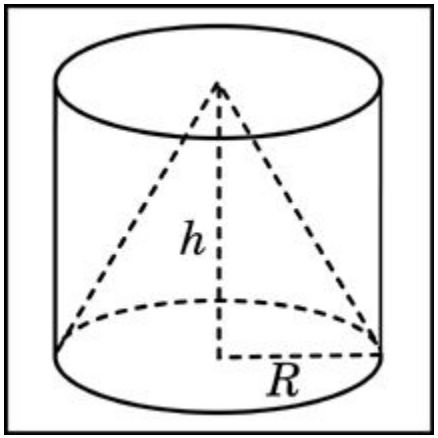
Probno.ru

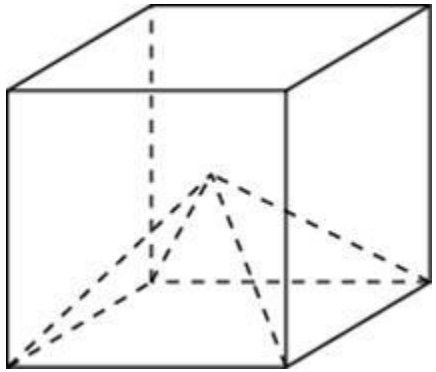
1) Определяем тип фигуры:

Vпризмы = 3*Vпирамиды!

(это если основания одинаковые и высоты совпадают)



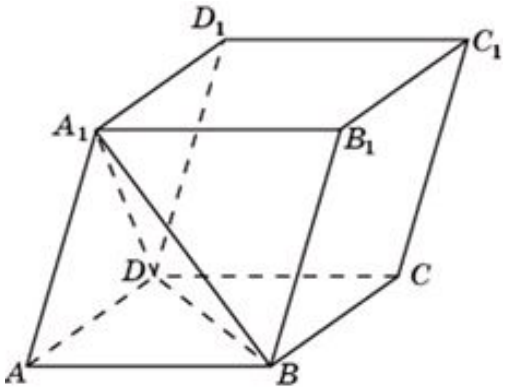




Probno.ru

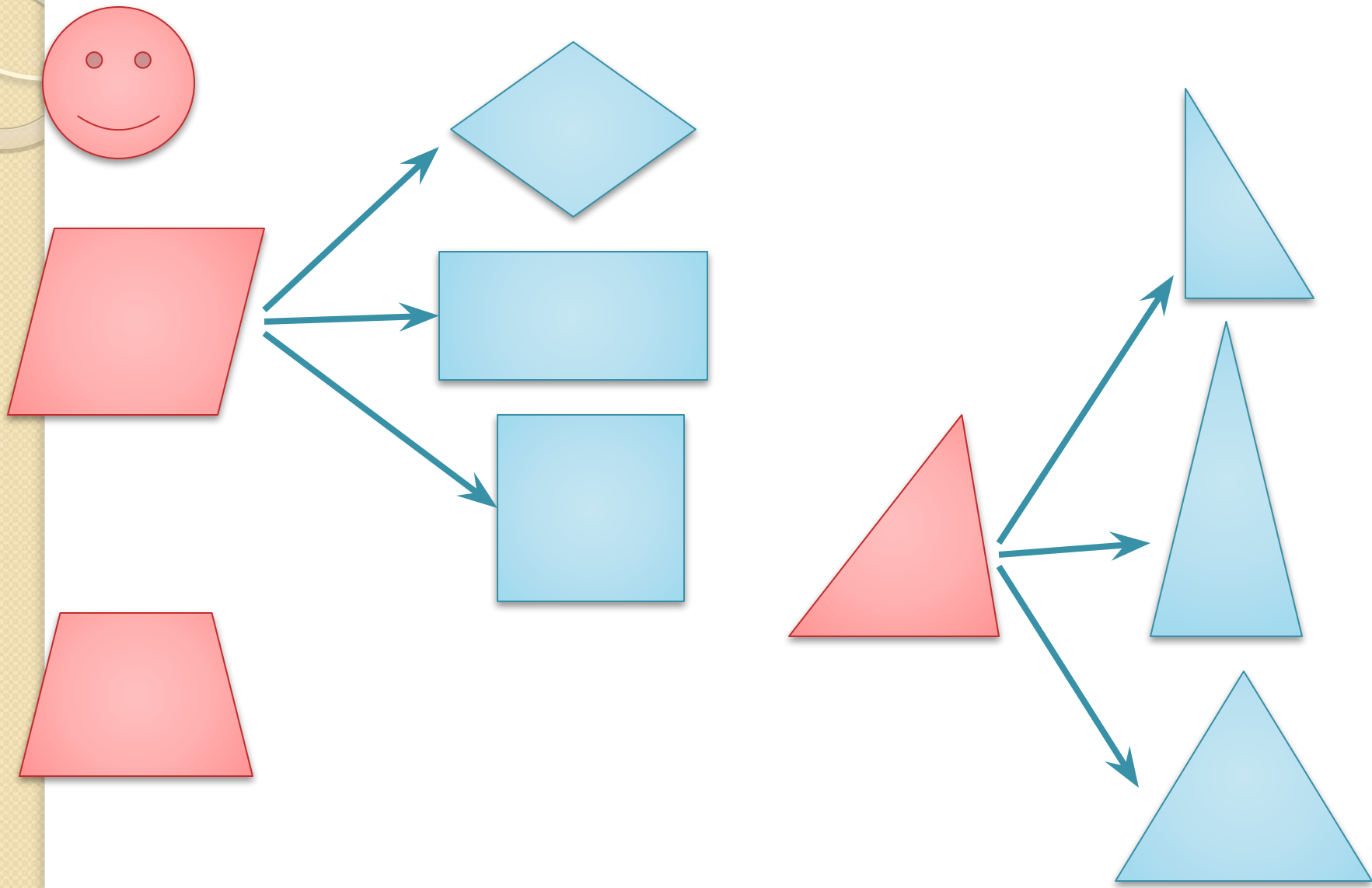
Задача:

- *Объем параллелепипеда равен 9. Найдите объем треугольной пирамиды $ABDA_1$.*

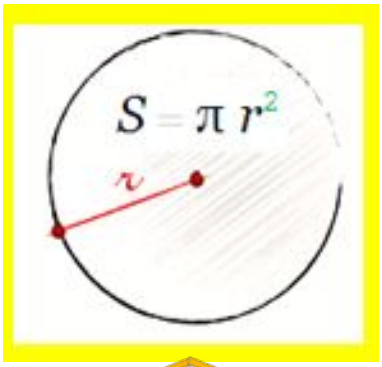


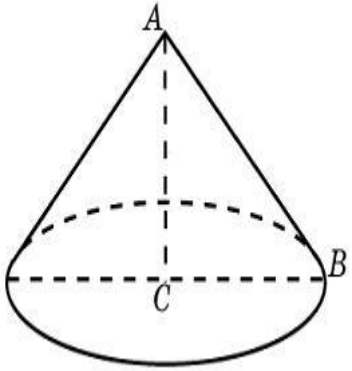
Probno.ru

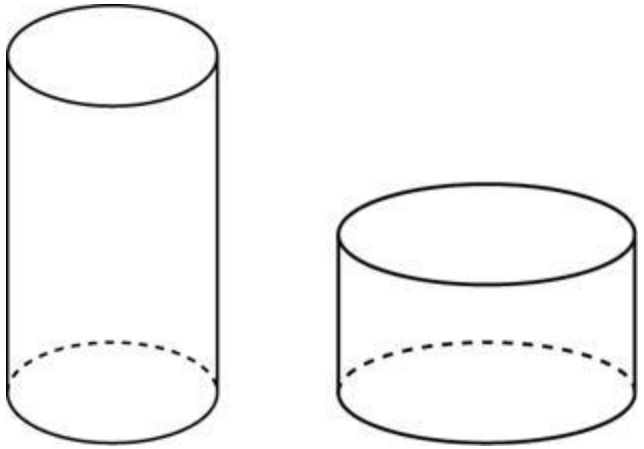
2) Определяем основание



2) Определяем основание





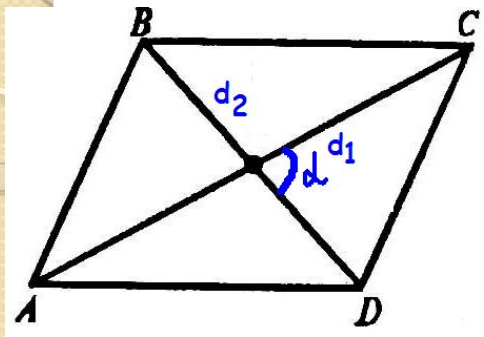


V конуса = …

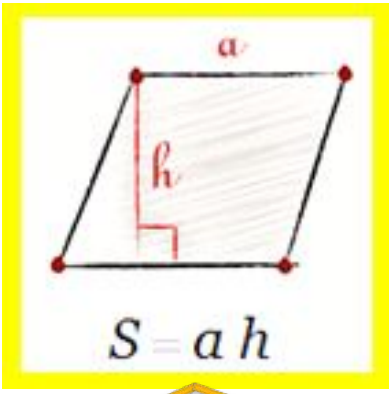
V цилиндра = …

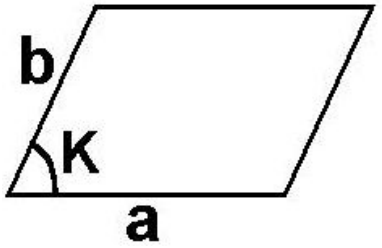
Probno.ru

2) Определяем основание

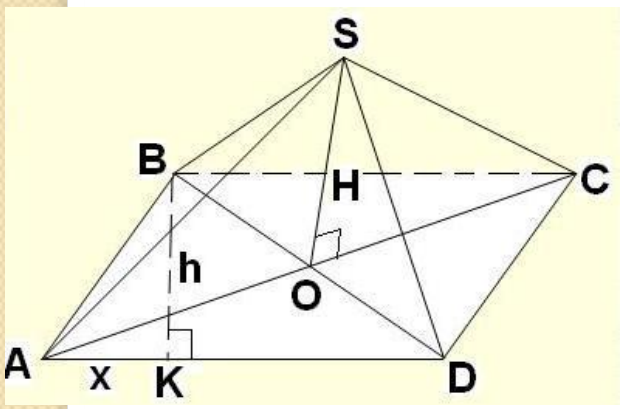


$S = \frac{1}{2} * d1 * d2 * \sin\alpha$

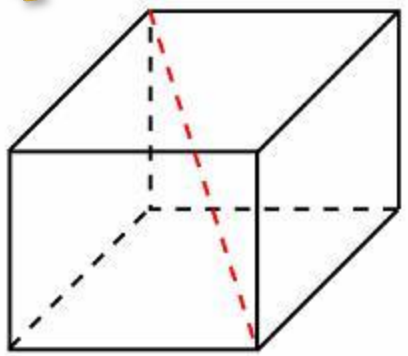




$S = a \times b \times \sin K$



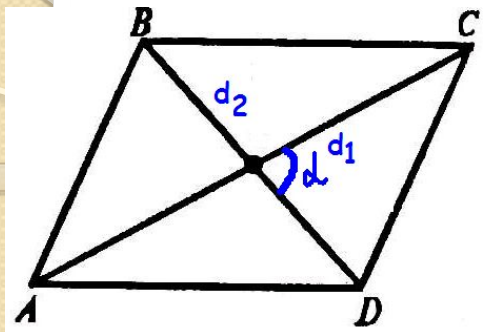
V пирамиды = …



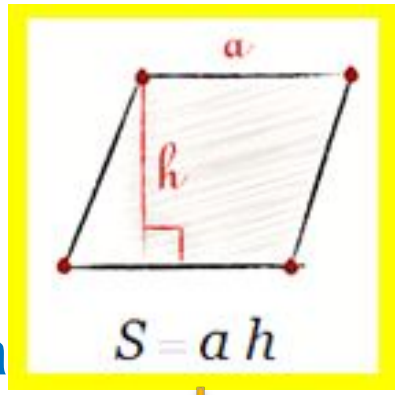
V призмы = …

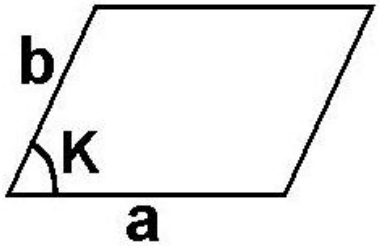
Probno.ru

2) Определяем основание

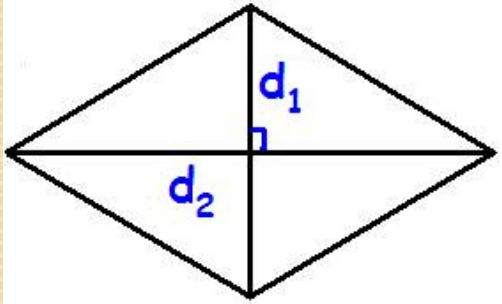


S = ½ * d1 * d2 * sina

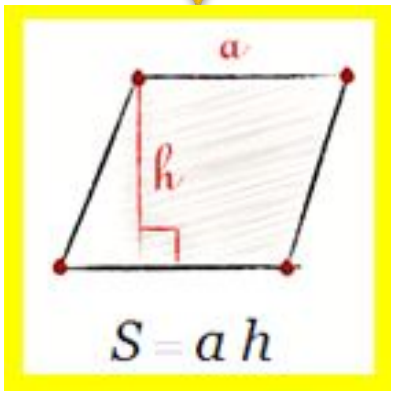


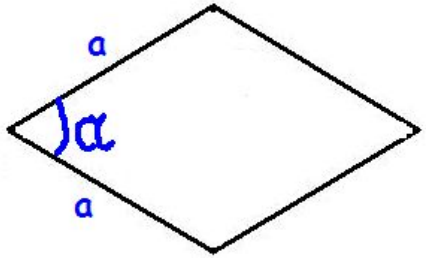


S=a×b×sinK



S = ½ * d1 * d2

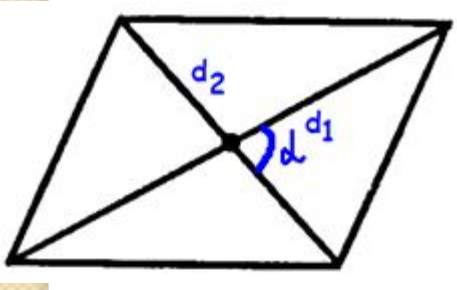




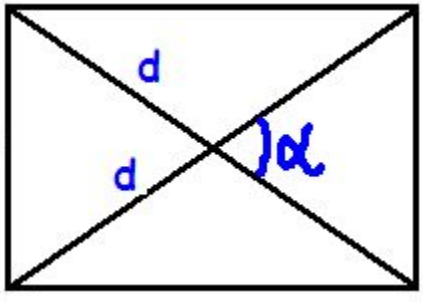
S = a*b*sina

Probno.ru

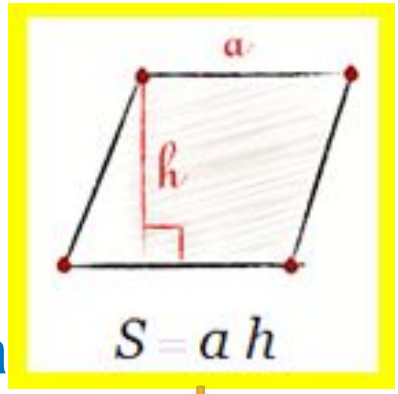
2) Определяем основание

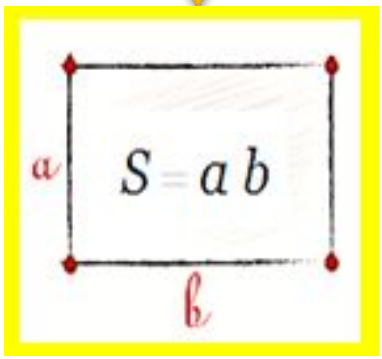


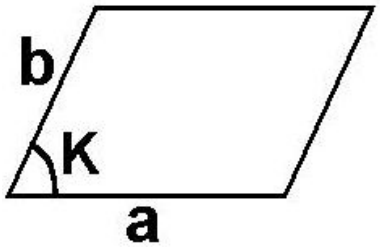
S = ½ * d1 * d2 * sina



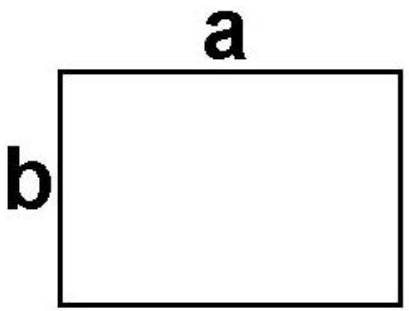
S = …







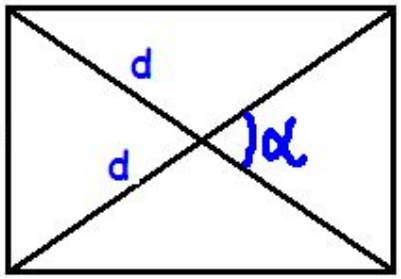
S=a×b×sinK

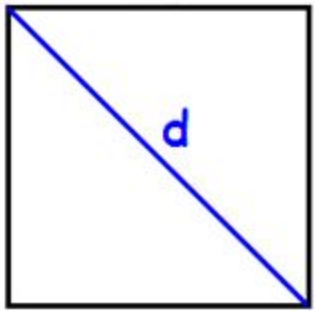


S = …

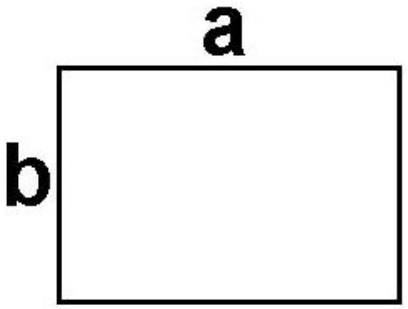
Probno.ru

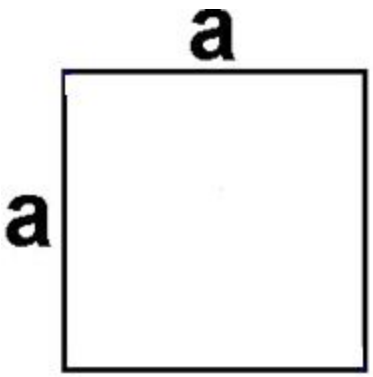
2) Определяем основание





S=…

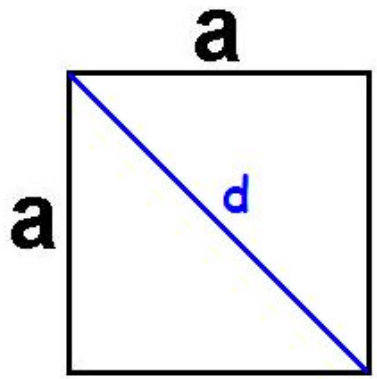


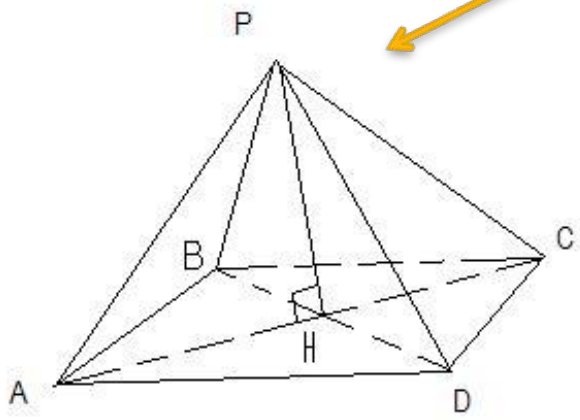


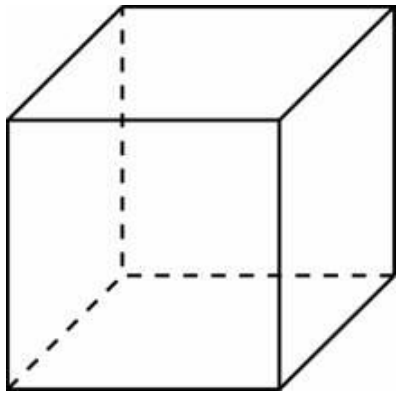
S = …

Probno.ru

2) Определяем основание





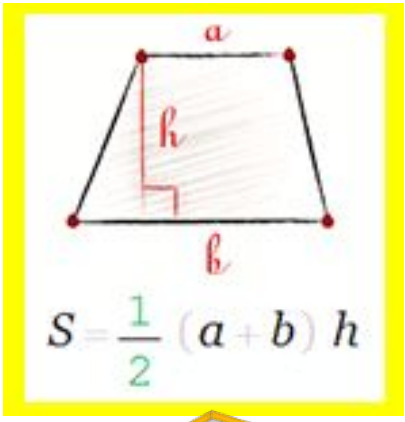


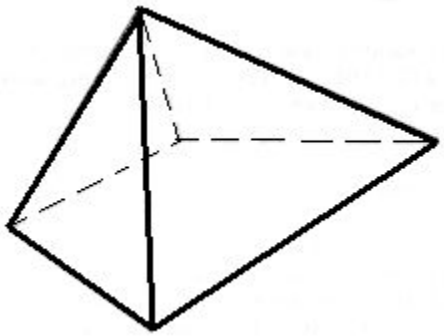
V пирамиды = …

V призмы = …

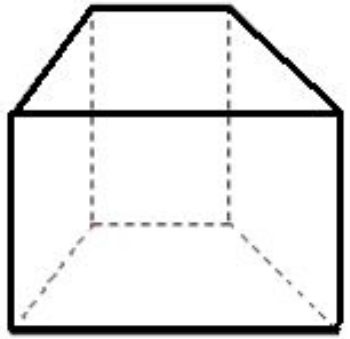
Probno.ru

2) Определяем основание





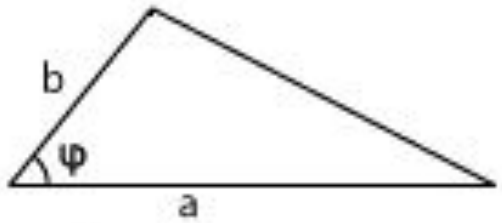
V пирамиды = …



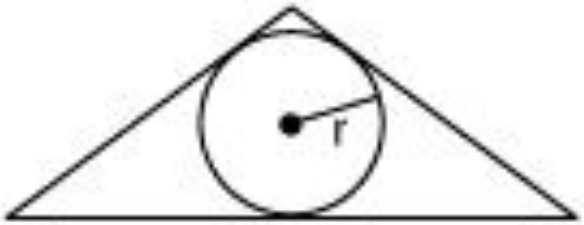
V призмы = …

Probno.ru

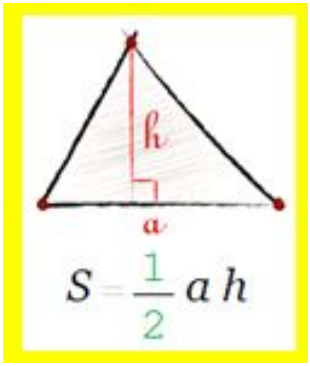
2) Определяем основание

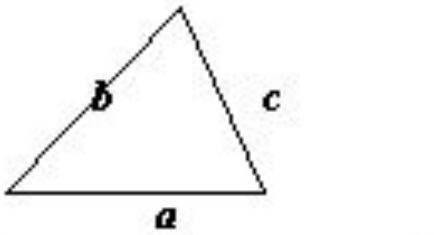


S = ½ * a*b*sin φ

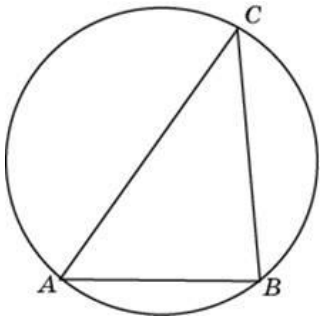


S = p*r





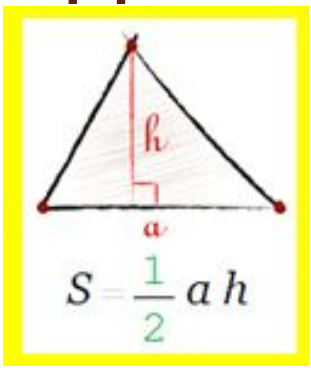
$$S=\sqrt{p(p-a)(p-b)(p-c)}$$



S = abc/4R

Probno.ru

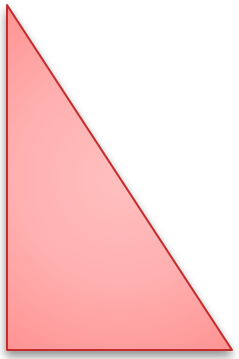
2) Определяем основание



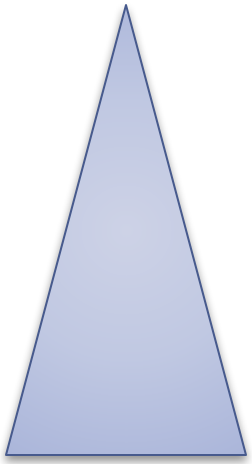
S = ½ * a*b*sin φ

S = p*r

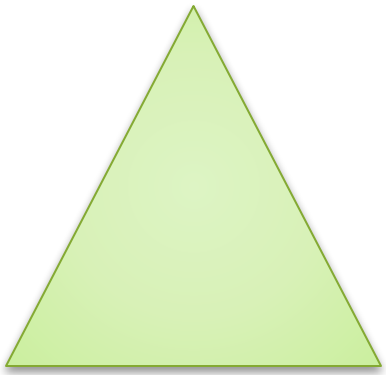
S = abc/4R



S = …



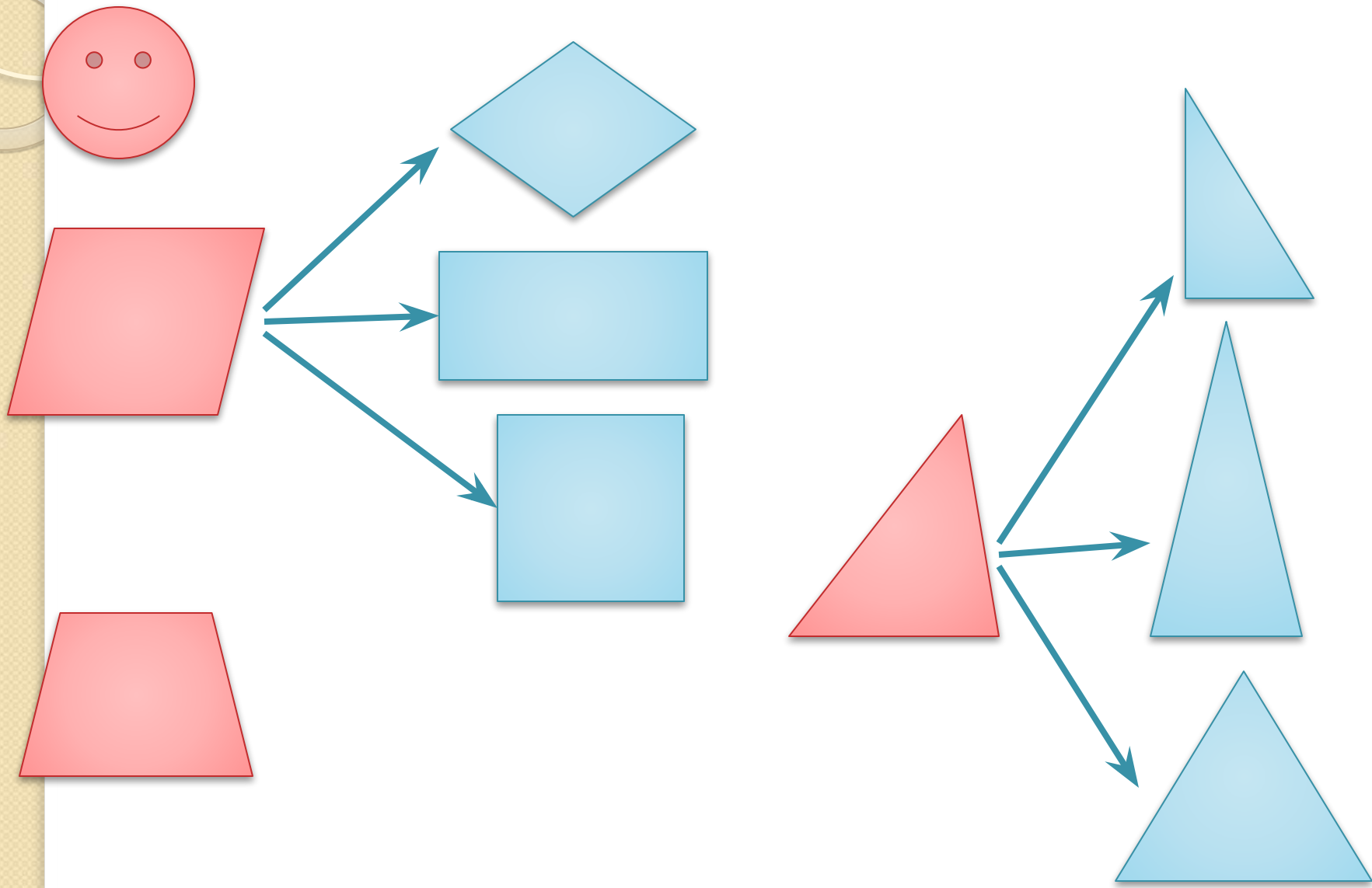
S = …



S = …

Probno.ru

2) Итак…



2) Итак…

Vпризмы = 3*Vпирамиды!

(если основания и высоты одинаковые)

180*(n-2)

(Сумма углов в прав. многоугольнике)

S:

Vпирамиды: $V = \frac{1}{3} S_{осн} H$

Vпризмы: $V = S_{осн} H$

Vшара: $V = \frac{4}{3} \pi r^3$

Sшара: $S = 4\pi r^2$

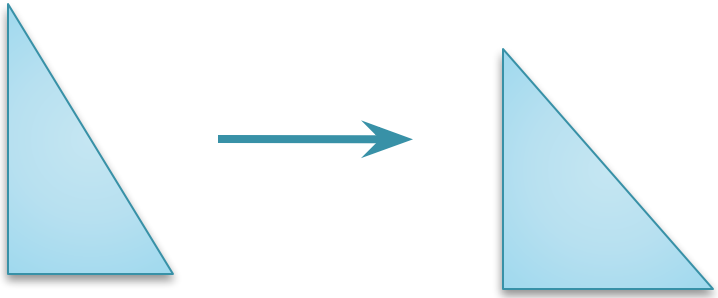
Probno.ru

Фишки – Запомни:

1. **За основание фигуры можно брать любую грань!**

2. ***Если пишут параллелограмм – может оказаться ромб, если прямоугольник – квадрат, и т.д.***

3. ***Аналогично с треугольником***

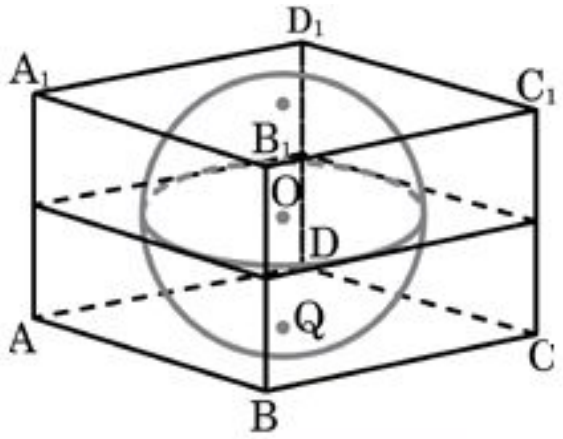


4. ***Также, параллелепипед - - - > куб!***

Probno.ru

Задача:

Прямоугольный параллелепипед описан около сферы радиуса 1. Найдите его объем.



Probno.ru

Д/з по B11: Скачать и Решать!

1) http://probno.ru/z_B11.doc - скачать задачи
2) Решить их
3) Скачать чек-лист
4) Задавать возникшие вопросы в уроке по B11

СПАСИБО
за
участие!

http://probno.ru ☺

Probno.ru