

**«Предмет математики  
столь серьезен, что не  
следует упускать ни  
одной возможности  
сделать его более  
занимательным»**

**Блез Паскаль**

# **«Звёздный час»**

# I тур

## 1 задание

2

1



**Л.Н.  
Толстой**



**М.В.  
Ломоносов**

3



**А.С.  
Пушкин**

**I тур**  
**2 задание**

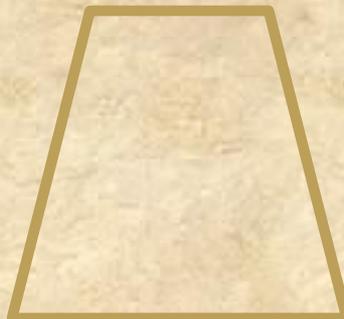
**1**



**2**



**3**

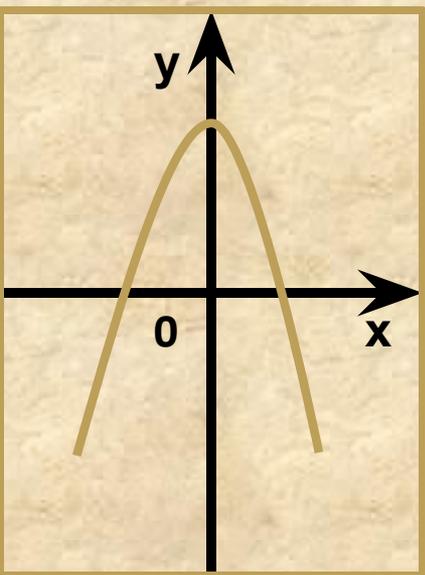


**4**

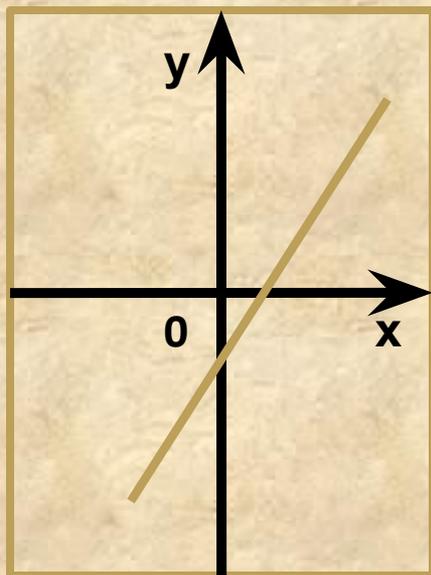


# 3 задание

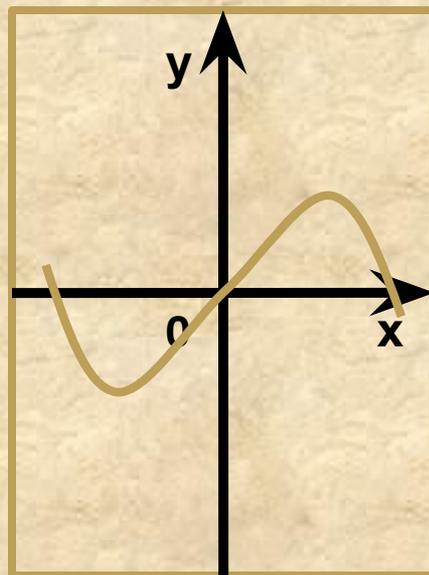
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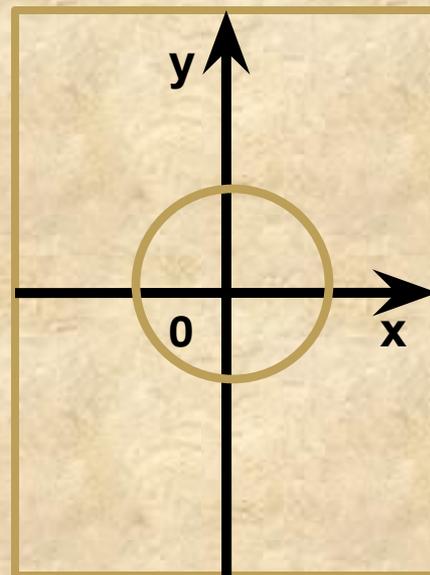
2



3



4



## 4 задание

**1**

$$y = x^6$$

**2**

$$y = x^{37}$$

**3**

$$y = x^{48}$$

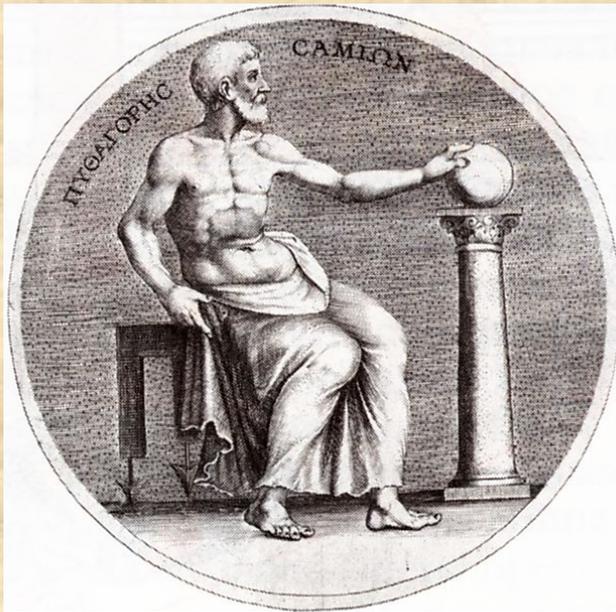
**4**

$$y = x^{100}$$

# II тур

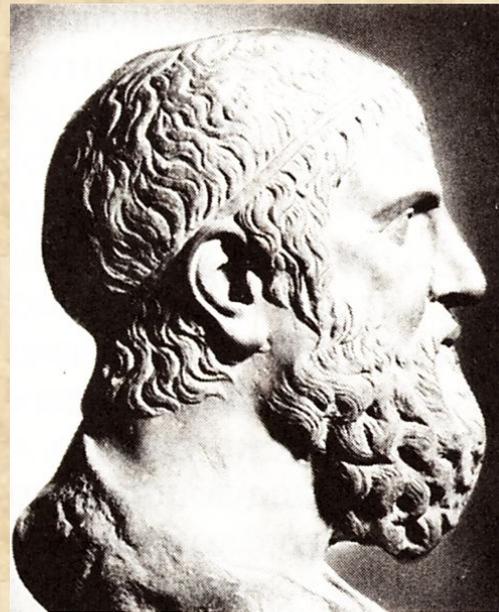
## 1 задание

1



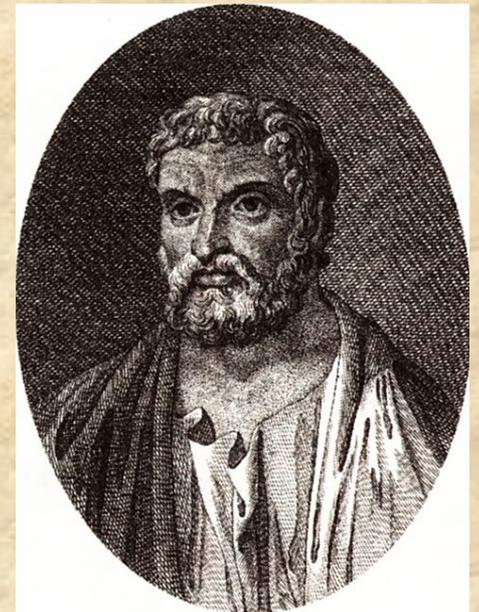
Пифаго  
р

2



Архиме  
д

3



Фале  
с

## 2 задание

**1**

$$y = -x^2 - 7x + 3$$

**2**

$$y = -1 + 3x + 7x^2$$

**3**

$$y = -(x + 7)^2 - 3$$

**4**

$$y = 3 - 7x^2$$

# 3 задание

1

**Локоть**

2

**Дюйм**

3

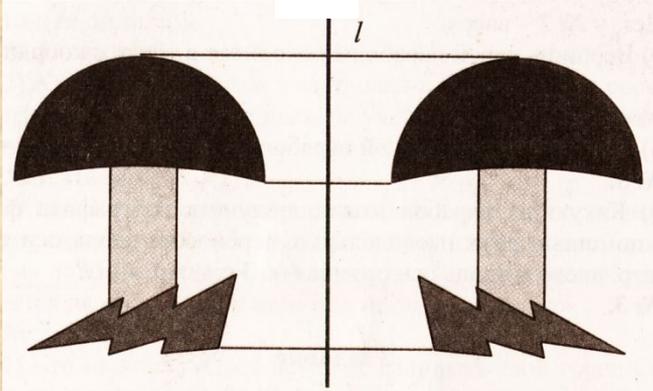
**Фут**

4

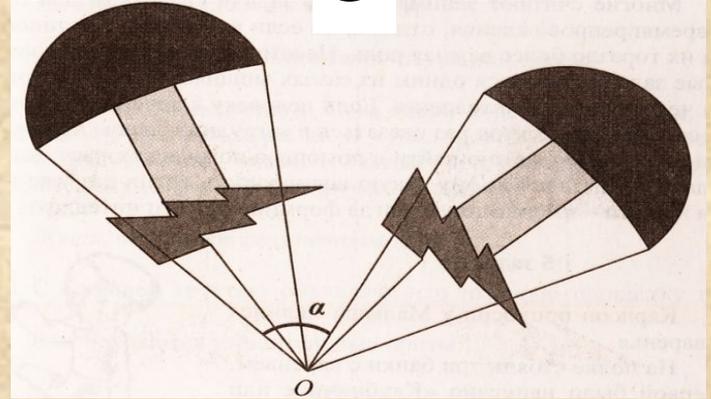
**Фунт**

# 4 задание

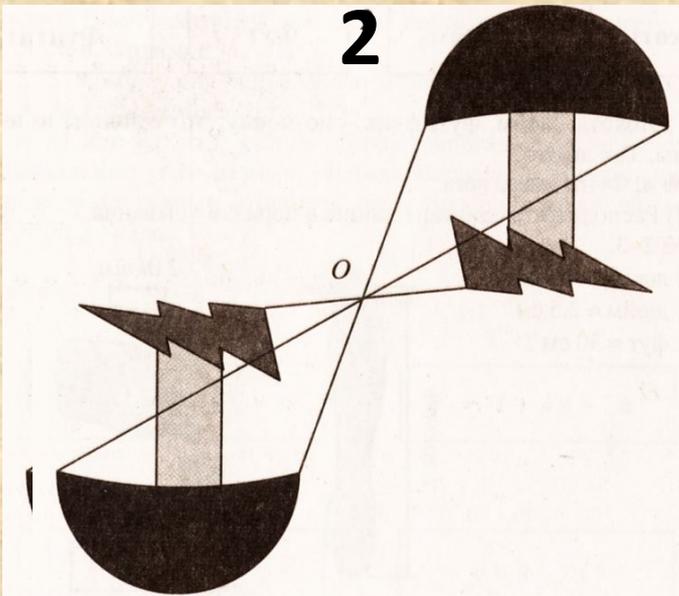
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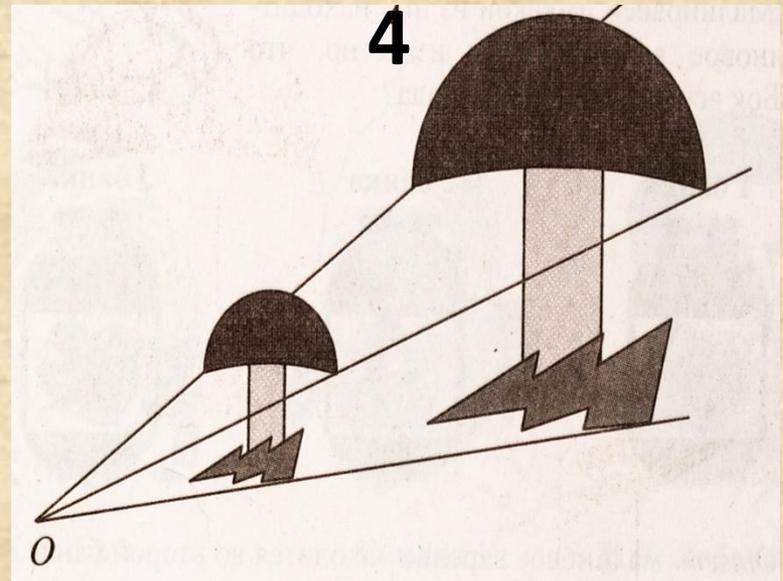
3



2



4



# 5 задание

1 банка



«Клубничное  
или  
малиновое»

2 банка



«Вишнево  
е»

3 банка



«Малиновое  
»

# III тур

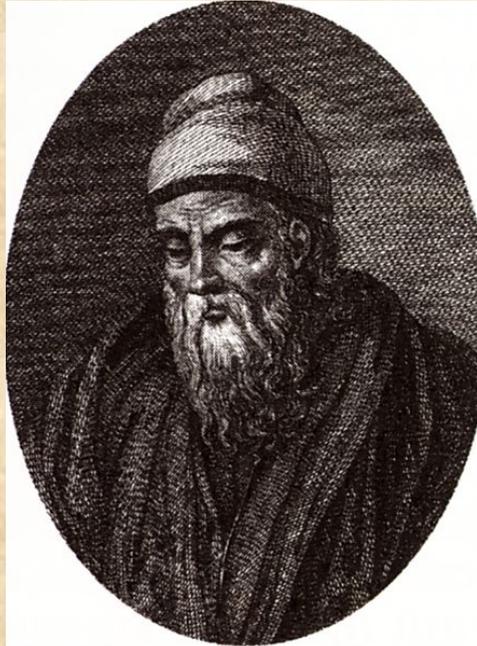
## 1 задание

1



**К.Ф.  
Гаусс**

2



**Евклид**

3



**Н.И.  
Лобачевский**

## 2 задание

**1**

$$y = 3x^2 - 2x^5 + 1$$

**2**

$$y = \frac{4}{\tilde{o}^2 + 3}$$

**3**

$$y = \frac{7}{\tilde{o} - 5}$$

**4**

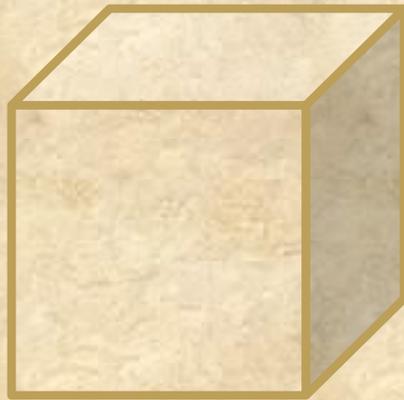
$$y = x^3 - 2$$

# 3 задание

1



2



3

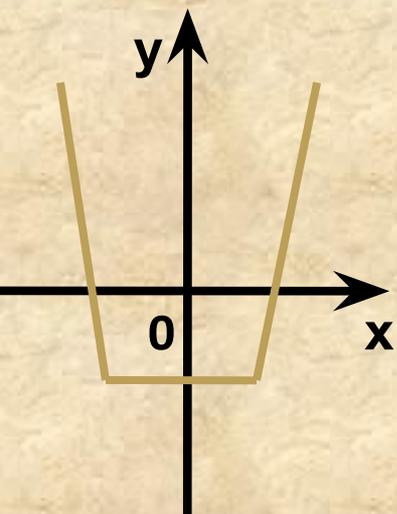


4

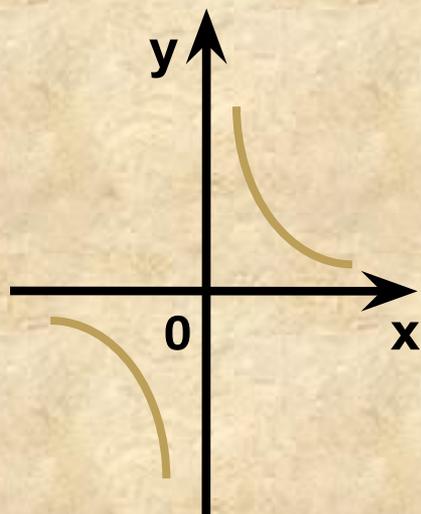


# 4 задание

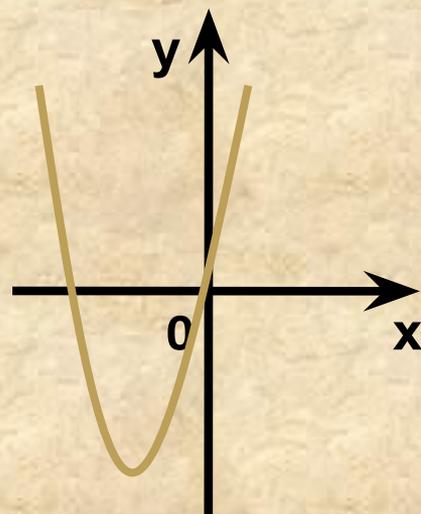
1



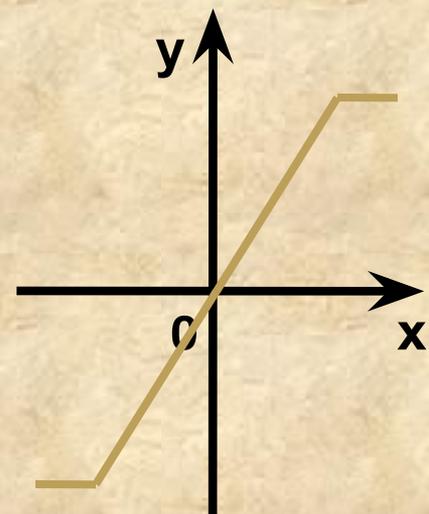
2



3



4



## 5 задание

**1**

$$S = \frac{1}{2} ab \sin \gamma$$

**2**

$$S = \frac{1}{2} ah_a$$

**3**

$$S = \frac{abc}{4R}$$

**4**

$$S = \frac{1}{2} (a + b)h$$

**Финал**

**Арифмети  
ка**