**Алгебра**

**Определение степени:**

1. 
2. 

**Свойства степеней**

1. 
2. 
3. 
4. 



**Свойства корня**

1. 
2. 
3. 
4. 
5.  *например,* , но 

 **7.** 

**Свойства логарифмов**

**Полезное тождество** 



 ; 

1. 
2. 
3. 
4. 
5. 

6. 7.

**. Простейшие тригонометрические уравнения *(*** ***)***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |***a|>1*** | ***а = 1*** | ***а = -1*** | ***а = 0*** | Остальные значения ***а*** |
| ***cos x = a*** | Нет решений |  |  |  |  |
| ***sin x = a*** | Нет решений |  |  |  |  |
| ***tg x = a*** |  | | | | |
| ***сtg x = a*** |  | | | | |

**Таблица значений тригонометрических функций**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 0; |  |  |  |  |  |  |  |  |  |
| sin | 0 |  |  |  | 1 |  |  |  |  |  |
| cos | 1 |  |  |  | 0 | - | - | - | -1 |  |
| tg | 0 |  | 1 |  | - |  |  |  |  |  |
| ctg | - |  | 1 |  | 0 | - | -1 | - | - |  |

**Производная**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Правила дифференцирования.**   |  | | --- | | **1.** | | **2.** | | **3.** | | **4.** | | **5.** | | **Таблица производных.**   |  |  | | --- | --- | |  | **;**    **;**  **;** | |  |  | |  |  | |  |  | |  |  | |