**Контрольная работа № 1**

**Тригонометрические функции**

обучающего(й)ся 11 класса\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Дата \_\_\_\_\_\_\_\_\_\_\_

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На выполнение работы по математике даётся 40 минут. Работа содержит 5 заданий.

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***Желаем успеха!***

Таблица для внесения баллов участника

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Номер  задания | 1 | 2 | 3 | 4 | 5 | Сумма  баллов | Отметка  за работу |
| Баллы |  |  |  |  |  |  |  |
| Количество баллов,  которые можно получить  за задание | 1 | 1 | 1 | 1 | 1 | 5 | За 3 балла – «3»;  за 4 – «4»;  за 5 баллов – «5» |

**Вариант 1**

1. Найти область определения функции: y =

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2. Найдите множество значений функции: y = 3 + cos2x

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3. Выясните, является ли данная функция четной или нечетной: y = x2 – 2sinx

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4. Решите уравнение: y = cos7x

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5. Решите уравнение: arctg =

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**Вариант 2**

1. Найти область определения функции: y =

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2. Найдите множество значений функции: y = 3 - 2sin2x

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3. Выясните, является ли данная функция четной или нечетной: y = –2cosx - x2

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4. Решите уравнение: y = sin3x

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5. Решите уравнение: arctg =

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