Специализированное структурное образовательное подразделение Посольства России в Египте средняя общеобразовательная школа с углубленным изучением иностранного (английского) языка.

**Семейная форма получения образования**

**Тест по алгебре 11 класс 2 полугодие.**

Фамилия \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Имя\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Город\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Дата\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Сайт**

**Часть 1. Обведите кружком верный ответ.(За каждое верно выполненное задание – 1 балл).**

1. **Решите уравнение *4x=64***
2. 16 2) 3 **3)** 4 **4)** 2 **5)** другой ответ
3. **Вычислите *lg 8 + lg 125***
4. 1 2) 30 3) 1000 4) 3 5) другой ответ
5. **Найдите значение выражения log 2 +log 2**
6. - 1 2) 1 3) 0 4) 5) другой ответ
7. **Найдите производную функции *y = ln (2+3x)***
8. 2+3x 2) 3) 1 4) 5) другой ответ
9. **Вычислите интеграл**
10. 2) 3) 0,08 4) 12,5 5) другой ответ

**Часть 2. Выполните задание и запишите решение. (За каждое верно выполненное задание – 2 балла).**

1. **Решите уравнение 7x+2 + 4 ∙ 7 x+1 =539**

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1. **Решите неравенство lg (2x-3)> lg (x + 1)**

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1. **Решите неравенство \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **Решите систему уравнений 3y∙9x=81**

**lg (x+y)2- lg x = 2 lg 3.**

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**Часть 3. Напишите подробное решение заданий. ( За каждое верно выполненное задание – 3 балла).**

1. **Вычислите площадь фигуры, ограниченной линиями *y=ex, y=0, x=0, x=1*.**

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**Критерии оценки:**

**“5”- 15- 16 баллов;**

“**4” – 11 - 14 баллов;**

“**3” – 8 - 10 баллов.**

**Менее 8 баллов – неудовлетворительно.**

**Ответы к тесту по алгебре.**

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **2** | **4** | **1** | **3** | **1** | **x=1** | (4;+∞) | **(-∞; -3)U(1;+∞)** | **(1;2);(16;-28)** | **S=e-1** |