**Специализированное структурное образовательное подразделение Посольства России в Египте средняя общеобразовательная школа с углубленным изучением иностранного языка**

**Тест по алгебре 10 класс 2 полугодие.**

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

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

**Сайт**

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

1. **Вычислите значение производной функции в точке *x = 2.***
2. -1 2) 1 **3)** 0 **4)** -3 **5)** другой ответ
3. **Найдите производную функции**
4. 2) 3) 4) 5) другой ответ
5. **Найдите промежутки возрастания функции**
6. 2) 3) 4) 5) другой ответ
7. **Найдите производную функции**

5) другой ответ

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

1. **Напишите уравнение касательной к графику функции в точкек с абсциссой**

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1. **Материальная точка движется прямолинейно по закону Найдите скорость и ускорение в момент t=5 с. (Перемещение измеряется в метрах)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

1. **Исследуйте функцию и постройте её график .**

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**Критерии оценки:**

**“5”- 10- 11 баллов;**

“**4” – 8 - 9 баллов;**

“**3” – 5-7 баллов.**

**Менее 5 баллов – неудовлетворительно.**

**Ответы к тесту по алгебре.**

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| **2** | **3** | **4** | **4** |  | 35 |  |