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**Диагностическая контрольная работа**

**по математике (алгебре) для 9 класса**

**Вариант 1**

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| Фамилия |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Имя |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Отчество |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Найдите значение выражения ($1\frac{1}{3}-2\frac{3}{4})∙26$.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Какое из данных ниже чисел принадлежит отрезку [7; 8]
2. 58/9
3. 62/9
4. 70/9
5. 79/9

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Вычислите 

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Решите уравнение $2x^{2}=8x$. Если уравнение имеет более одного корня, в ответ запишите меньший из корней.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Выписаны первые три члена арифметической прогрессии:

− 6; 1; 8; … Найдите 6-й член этой прогрессии.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Найдите значение выражения (*x*+5)2 −*x*(*x*−10) при *x*=− 1/20.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Установите соответствие между графиками функций и формулами, которые их задают.

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| **ГРАФИКИ** |
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| **А)**  | undefined |   **Б)**  | undefined |   **В)**  | undefined |

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| **ФОРМУЛЫ** |
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| **1)** $y=x^{2}+2 $ |

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|   **2)** *y*=− 2/*x* |

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|   **3)** *y*=2*x* |

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В таблице под каждой буквой укажите соответствующий номер.

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| А | Б | В |
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1. Укажите решение неравенства 3*x*−2(*x*−5)≤− 6
2. [4 ; +∞)
3. (− ∞ ; 4]
4. (− ∞ ; −16]
5. [− 16 ; +∞)

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| 0-4 балла | 5 баллов | 6-7 баллов | 8 баллов |
| 2 | 3 | 4 | 5 |

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| ДАТА |
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**Диагностическая контрольная работа**

**по математике (алгебре) для 9 класса**

**Вариант 2**

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| Фамилия |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Имя |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Отчество |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Найдите значение выражения ($\frac{5}{6}+1\frac{1}{10})∙24$.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Какое из данных ниже чисел принадлежит отрезку [6; 7]
2. 67/12
3. 71/12
4. 83/12
5. 91/12

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Вычислите 

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Решите уравнение $3x^{2}=9x.$ Если уравнение имеет более одного корня, в ответ запишите меньший из корней.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Выписаны первые три члена арифметической прогрессии: − 4; 2; 8; …

Найдите 8-й член этой прогрессии.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Найдите значение выражения (2+*c*)2 −*c*(*c*−4) при *c*=− 1/8.

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Установите соответствие между графиками функций и формулами, которые их задают.

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| **ГРАФИКИ** |
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| **А)**  | undefined |   **Б)**  | undefined |   **В)**  | undefined |

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| **ФОРМУЛЫ** |
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| **1)** *y*=1/2*x* |

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|   **2)** *y*= $=2-x^{2}$  |

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|   **3)** *y*=$\sqrt{x}$  |

В таблице под каждой буквой укажите соответствующий номер.

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| А | Б | В |
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1. Укажите решение неравенства

9*x*−4(*x*−7)≥− 3

1. [5 ; +∞)
2. [− 6,2 ; +∞)
3. (− ∞ ; −6,2]
4. (− ∞ ; 5]

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| ОТВЕТ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- |
| 0-4 балла | 5 баллов | 6-7 баллов | 8 баллов |
| 2 | 3 | 4 | 5 |