**Демонстрационный вариант промежуточной (итоговой) контрольной работы по алгебре 8 класс**

**ФИО** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Найдите значение выражения $\frac{0,3∙7,2}{4,5}$.

Ответ: \_\_\_\_\_\_\_\_\_\_\_

1. Одна из точек, отмеченных на координатной прямой, соответствует числу $\sqrt{68}$. Какая это точка?



 *В ответе укажите номер правильного варианта.*

1. точка *А*
2. точка *В*
3. точка *С*
4. точка *D.*

Ответ: \_\_\_\_\_\_\_\_\_\_

1. В каком случае числа $4\sqrt{2 }$, $2\sqrt{7 }$и 5 расположены в порядке возрастания?

 В ответе укажите номер правильного варианта.

1. $5;2\sqrt{7}; 4\sqrt{2}$
2. $4\sqrt{2}; 2\sqrt{7};5$
3. $2\sqrt{7};5;4\sqrt{2}$
4. $4\sqrt{2};5;2\sqrt{7}$

Ответ: \_\_\_\_\_\_\_\_\_\_\_

1. Найдите корни уравнения $16x^{2}-1=0$.

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| Решение: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Установите соответствие между графиками функций и формулами, которые их задают.

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| А | Б | В |
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1) $y=x^{2}$ 2) $y=\frac{x}{2}$ 3) $y=\sqrt{x}$ 4) $y=\frac{2}{x}$

 Запишите в ответ цифры, расположив их в порядке, соответствующем буквам:

 Ответ:

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| А | Б | В |
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1. Найдите значение выражения $\left(\frac{b}{a}-\frac{a}{b}\right)∙\frac{1}{b+a}$ при $a=1$, $b=\frac{1}{3}$.

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| Решение: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Сократите дробь

$$\frac{x^{3}-2x^{2}-9x+18}{\left(x-2\right)\left(x+3\right)}$$

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| Решение: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Решите уравнение

$$8x^{2}+4x+8=3x^{2}-7x+86$$

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| Решение: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Система оценивания контрольной работы**

**Оценивание отдельных заданий**

|  |  |  |  |  |  |  |  |  |  |
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| Номерзадания | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Итого |
| Балл | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 11 |

**Для классов КРО необходимо выполнить задания №1-5.**

**Критерии оценивания работы:**

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| «2» | «3» | «4» | «5» |
| 0 – 4 балла | 5 – 6 баллов | 7 – 8 баллов | 9 – 11 баллов |

**Ответы:**

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| **Номер задания** | **Правильный ответ** |
| 1 | 0,48 |
| 2 | 3 |
| 3 | 1 |
| 4 | $$-\frac{1}{4} и \frac{1}{4}$$ |
| 5 | 142 |
| 6 | -2 |
| 7 | $$x-3$$ |
| 8 | - 5,2 и 3 |