Демонстрационный вариант

диагностической работы по математике

для обучающихся 8-х классов

**Запись решений с развернутым ответом на бланке решения заданий**

1. **Вычислите:**
2. ;
3. ;
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5. **Упростите** при

1. **Решите уравнение:**
2. **Решите задачу:**

Моторная лодка прошла 28 км против течения реки и 16 км по течению, затратив на весь пусть 3 ч. Какова скорость моторной лодки в стоячей воде, если известно, что скорость течения реки равна 1 км/ч?

1. **Найдите целые решения системы неравенств:**
2. **Решите систему уравнений:**

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| **Выполните задание №7 или №8** |

1. **Решите задачу с указанием всех теоретических обоснований:**

В остроугольном треугольнике АВС <А=450, ВС=13см. На стороне АС взята точка К так, что КС=5см, ВК=12см. Найдите площадь треугольника АВС.

1. **Решите задачу с указанием всех теоретических обоснований:**

Боковые стороны трапеции равны 9см и 12см, а основания 30см и 15см. Найдите угол, который образуют продолжения боковых сторон.

**Диагностическая работа по математике**

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| **Код участника** |  |  |  |  |  |  |

**Бланк решения заданий**

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**Продолжите работу на оборотной стороне**

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| **Код участника** |  |  |  |  |  |  |

**Оборотная сторона бланка решения заданий**

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