**Контрольная работа**

**по математике в 9 классе**

Цель работы:

Проверить знания математической подготовки учащихся 9 класса с позиции Основного Государственного экзамена.

Содержание работы:

Контрольная работа по математике в 9 классе рассчитана на 45 минут. Работа состоит из двух частей. Первая часть содержит 8 заданий базового уровня, которые требуют краткого ответа, вторая – два задания повышенного уровня, для которых следует привести полное решение.

Оценивание работы:

Каждое задание первой части оценивается одним баллом. Во второй части – два балла. Вся работа оценивается двенадцатью баллами.

Перевод баллов в отметку:

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| БАЛЛ | 0-4 | 5-7 | 8-10 | 11-12 |
| ОТМЕТКА | 2 | 3 | 4 | 5 |

 **Контрольная работа**

**по математике в 9 классе**

1. Найдите значение выражения

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| 1. На координатной прямой отмечены числа *а* и *b*. Какое из следующих чисел наибольшее?2.png
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| *b* |
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| − | *a* |

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| *ab* |

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| *a* | − | *b* |

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1. Решите уравнение
Если корней несколько, запишите их через точку с запятой в порядке возрастания.
2. Упростите выражение
 и найдите его значение при t=3√5. В ответ запишите полученное число;

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| 1. Для каждой системы неравенств укажите множество её решений.
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| **СИСТЕМА НЕРАВЕНСТВ** |   | **МНОЖЕСТВО РЕШЕНИЙ** |
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| **Б)** |

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| **В)** |

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| **4)** | решений нет |

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1. В равнобедренном треугольнике ABC с основанием AC внешний угол при вершине C равен 123°. Найдите величину угла ABC. Ответ дайте в градусах.
2. Найдите тангенс угла B треугольника ABC, изображённого на рисунке.



1. Товар на распродаже уценили на 20%, при этом он стал стоить 520 р. Сколько рублей стоил товар до распродажи?
2. Решите уравнение:
3. Катет и гипотенуза прямоугольного треугольника равны 18 и 30. Найдите высоту, проведённую к гипотенузе.