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| **1**Найдите площадь квадрата, изображенного на клетчатой бумаге с размером клетки 1 см \times1 см (см. рис.) Ответ дайте в квадратных сантиметрах.MA.OB10.B6.65/innerimg0.jpg |

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| Найдите площадь четырехугольника, изображенного на клетчатой бумаге с размером клетки 1 см \times1 см (см. рис.). Ответ дайте в квадратных сантиметрах.pic.233 |

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|  **3 Формула** |  |  |

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| Найдите площадь трапеции, изображенной на клетчатой бумаге с размером клетки 1 см \times1 см (см. рис.). Ответ дайте в квадратных сантиметрах.pic.114 |

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| **4 Формула** |  |  |

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 |
| Найдите площадь параллелограмма, изображенного на клетчатой бумаге с размером клетки 1 см \times1 см (см. рис.). Ответ дайте в квадратных сантиметрах.pic.231 |

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| **5** |  |  |

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| Найдите (в см2) площадь Sфигуры, изображенной на клетчатой бумаге с размером клетки 1 см \times1 см (см. рис.). В ответе запишите \frac S\pi.pic.224 |

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 |
| Найдите площадь треугольника, вершины которого имеют координаты (0;0), (10;7), (7;10). p10/p10.43 |

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| Найдите площадь закрашенной фигуры на координатной плоскости. p7/p7.1 |

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| Найдите диагональ квадрата, если его площадь равна 2. MA.OB10.B6.02/innerimg0.jpg  |

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|  **9** |  |  |

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 |
| Найдите площадь параллелограмма, если две его стороны равны 8 и 10, а угол между ними равен 30^\circ. MA.OB10.B6.04/innerimg0.jpg |

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|  **10** |  |  |

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| Найдите площадь ромба, если его стороны равны 1, а один из углов равен 150^\circ. MA.OB10.B6.05/innerimg0.jpg |

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 |
| Площадь прямоугольного треугольника равна 16. Один из его катетов равен 4. Найдите другой катет. MA.OB10.B6.07/innerimg0.jpg |

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| **12** |  |  |

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| Найдите площадь треугольника, две стороны которого равны 8 и 12, а угол между ними равен 30^\circ. MA.OB10.B6.10/innerimg0.jpg |

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|  **13** |  |  |

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| Площадь треугольника *ABC* равна 4. DE  — средняя линия. Найдите площадь треугольника *CDE*. MA.OB10.B6.11/innerimg0.jpg |

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 |
| Периметры двух подобных многоугольников относятся как 3:5. Площадь меньшего многоугольника равна 18. Найдите площадь большего многоугольника. MA.OB10.B6.14/innerimg0.jpg |

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|  **15** |  |  |

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| Найдите площадь круга, длина окружности которого равна \sqrt{\pi }. MA.OB10.B6.15/innerimg0.jpg |

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 |
| Периметр прямоугольника равен 28, а диагональ равна 10. Найдите площадь этого прямоугольника.MA.OB10.B6.24/innerimg0.jpg |

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 |
| Даны два квадрата, диагонали которых равны 10 и 6. Найдите диагональ квадрата, площадь которого равна разности площадей данных квадратов.MA.OB10.B6.27/innerimg0.jpg |

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| Во сколько раз площадь квадрата, описанного около окружности, больше площади квадрата, вписанного в эту окружность?MA.OB10.B6.28/innerimg0.jpg |

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| Параллелограмм и прямоугольник имеют одинаковые стороны. Найдите острый угол параллелограмма, если его площадь равна половине площади прямоугольника. Ответ дайте в градусах.MA.OB10.B6.29/innerimg0.jpg |

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| Площадь параллелограмма равна 40, две его стороны равны 5 и 10. Найдите большую высоту этого параллелограмма.MA.OB10.B6.31/innerimg0.jpg |

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| Найдите площадь ромба, если его высота равна 2, а острый угол 30^\circ. MA.OB10.B6.32/innerimg0.jpg |

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 |
| Площадь ромба равна 6. Одна из его диагоналей в 3 раза больше другой. Найдите меньшую диагональ.MA.OB10.B6.35/innerimg0.jpg |

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| Угол при вершине, противолежащей основанию равнобедренного треугольника, равен 30^\circ. Найдите боковую сторону треугольника, если его площадь равна 25. MA.OB10.B6.39/innerimg0.jpg |

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|  **24** |  |  |

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 |
| Площадь остроугольного треугольника равна 12. Две его стороны равны 6 и 8. Найдите угол между этими сторонами. Ответ дайте в градусах. |

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 | http://mathege.ru/ROOT/images/spacer.gif |

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|  **25** |  |  |

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| У треугольника со сторонами 9 и 6 проведены высоты к этим сторонам. Высота, проведенная к первой стороне, равна 4. Чему равна высота, проведенная ко второй стороне? MA.OB10.B6.42/innerimg0.jpg |

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|  **26** |  |  |

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| Площадь треугольника равна 24, а радиус вписанной окружности равен 2. Найдите периметр этого треугольника. MA.OB10.B6.44/innerimg0.jpg |

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| Высота трапеции равна 10, площадь равна 150. Найдите среднюю линию трапеции. MA.OB10.B6.48/innerimg0.jpg |

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|  **28** |  |  |

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| Основания равнобедренной трапеции равны 14 и 26, а ее периметр равен 60. Найдите площадь трапеции. MA.OB10.B6.50/innerimg0.jpg |

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|  **29** |  |  |

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| Основания прямоугольной трапеции равны 12 и 4. Ее площадь равна 64. Найдите острый угол этой трапеции. Ответ дайте в градусах. MA.OB10.B6.53/innerimg0.jpg |

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| **30** |  |  |

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| Основания трапеции равны 27 и 9, боковая сторона равна 8. Площадь трапеции равна 72. Найдите острый угол трапеции, прилежащий к данной боковой стороне. Ответ выразите в градусах.MA.OB10.B6.57/innerimg0.jpg |

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| **31** |  |  |

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| Около окружности описан многоугольник, площадь которого равна 5. Его периметр равен 10. Найдите радиус этой окружности.MA.OB10.B6.60/innerimg0.jpg |

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|  **32** |  |  |

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| Найдите площадь кольца, ограниченного концентрическими окружностями, радиусы которых равны \frac{4}{\sqrt{\pi }} и \frac{2}{\sqrt{\pi }}. MA.OB10.B6.61/innerimg0.jpg |

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 | http://mathege.ru/ROOT/images/spacer.gif |

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|  **33** |  |  |

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| Найдите центральный угол сектора круга радиуса \frac{4}{\sqrt{\pi }}, площадь которого равна 1. Ответ дайте в градусах.MA.OB10.B6.62/innerimg0.jpg |

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|  **34** |  |  |

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| Найдите площадь *S* круга, считая стороны квадратных клеток равными 1. В ответе укажите \frac{S}{\pi }. MA.OB10.B6.73/innerimg0.jpg |

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| **35** |  |  |

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| Из точки А(6, 8) опущен перпендикуляр на ось абсцисс. Найдите абсциссу основания перпендикуляра.MA.OB10.B6.75/innerimg0.jpg |

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 | http://mathege.ru/ROOT/images/spacer.gif |

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| http://mathege.ru/ROOT/images/spacer.gif |

**36**

Найдите расстояние от точки *A* с координатами (6, 8) до оси абсцисс.



**37**

Через точку (6, 8) проведена прямая, параллельная оси абсцисс. Найдите ординату ее точки пересечения с осью *Oy*.



**38**

Найдите расстояние от точки *A* с координатами (6, 8) до начала координат.

