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| Найдите расстояние между вершинами Aи D_1прямоугольного параллелепипеда, для которого AB=5, AD=4, AA_1=3. |

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

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| В правильной шестиугольной призме ABCDEFA_1B_1C_1D_1E_1F_1все ребра равны 1. Найдите расстояние между точками Bи E. |

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| Найдите квадрат расстояния между вершинами Dи C_2многогранника, изображенного на рисунке. Все двугранные углы многогранника прямые.b9_222.eps |

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| Найдите квадрат расстояния между вершинами Bи D_2многогранника, изображенного на рисунке. Все двугранные углы многогранника прямые.b9_228.eps |

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| Найдите тангенс угла ABB_3многогранника, изображенного на рисунке. Все двугранные углы многогранника прямые.b9_228.eps |

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| Найдите угол EAD_2многогранника, изображенного на рисунке. Все двугранные углы многогранника прямые. Ответ дайте в градусах.b9_234.eps |

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 |
| В правильной четырехугольной пирамиде SABCDточка O — центр основания, Sвершина, SC=5, AC=6. Найдите длину отрезка SO. |

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| В правильной треугольной пирамиде SABCR — середина ребра BC, S — вершина. Известно, что AB=1, а SR=2. Найдите площадь боковой поверхности. |

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

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| В правильной треугольной пирамиде SABCмедианы основания пересекаются в точке M. Площадь треугольника ABCравна 3, MS=1. Найдите объем пирамиды. |

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

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| Высота конуса равна 4, а длина образующей — 5. Найдите диаметр основания конуса. |

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 |
| В кубе ABCDA_1B_1C_1D_1точка K — середина ребра AA_1, точка L — середина ребра A_1B_1, точка M — середина ребра A_1D_1. Найдите угол MLK. Ответ дайте в градусах. |

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| В прямоугольном параллелепипеде ABCDA_1B_1C_1D_1известны длины рёбер: AB=24, AD=10, AA_1=22. Найдите площадь сечения, проходящего через вершины A, A_1и C. |

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

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 |
| Около конуса описана сфера (сфера содержит окружность основания конуса и его вершину). Центр сферы находится в центре основания конуса. Радиус сферы равен 28\sqrt{2}. Найдите образующую конуса. |

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 |
| В правильной треугольной призме ABCA_1B_1C_1, все ребра которой равны 3, найдите угол между прямыми AA_1и BC_1. Ответ дайте в градусах.**15** |

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 |
| В правильной четырёхугольной призме ABCDA_1B_1C_1D_1известно, что AC_1=2BC. Найдите угол между диагоналями BD_1и CA_1. Ответ дайте в градусах. |

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

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