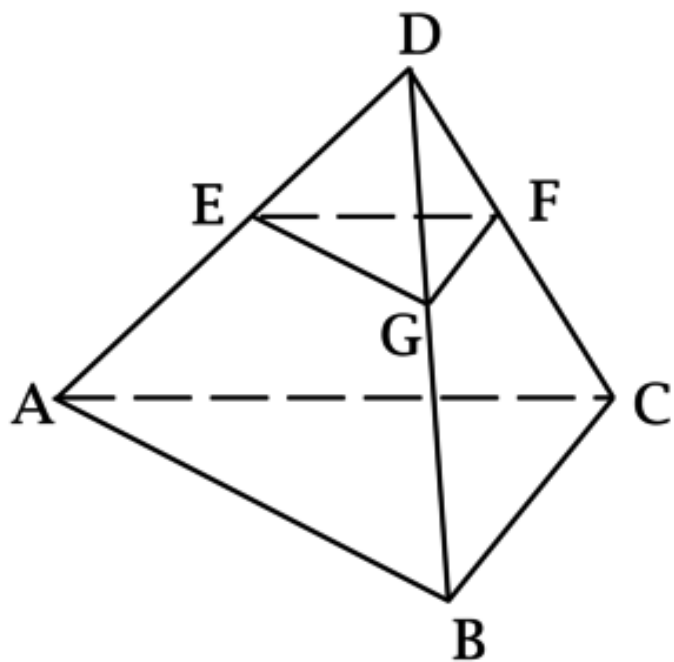


Задание 1

Уровень задания: Сложнее ЕГЭ

$ABCD$ – треугольная пирамида, $V_{ABCD} = 102$. Плоскость $\beta \parallel (ABC)$. Сечение $ABCD$ плоскостью β есть треугольник EFG , причём $BC = 2\sqrt{3} \cdot FG$, а высота пирамиды h , проведённая из вершины D к (ABC) , равна 34. Найдите S_{EFG} .



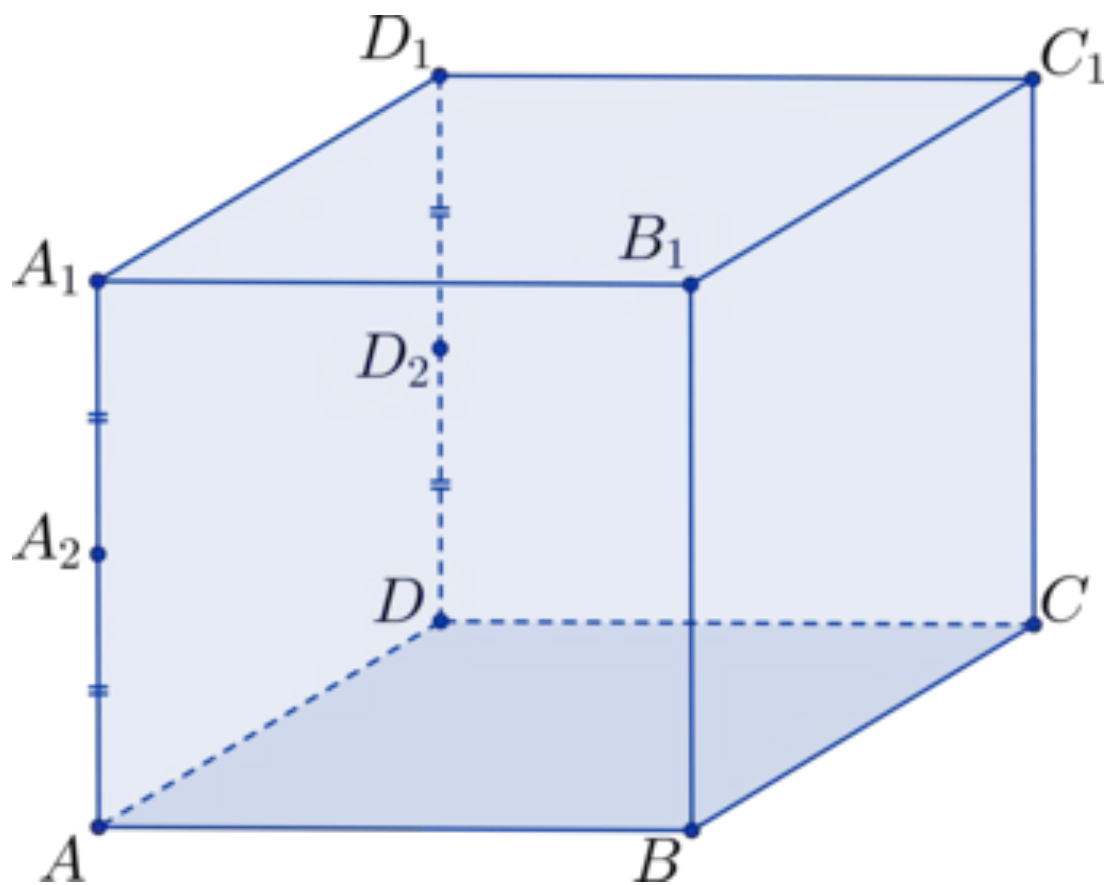
Формула объема пирамиды:

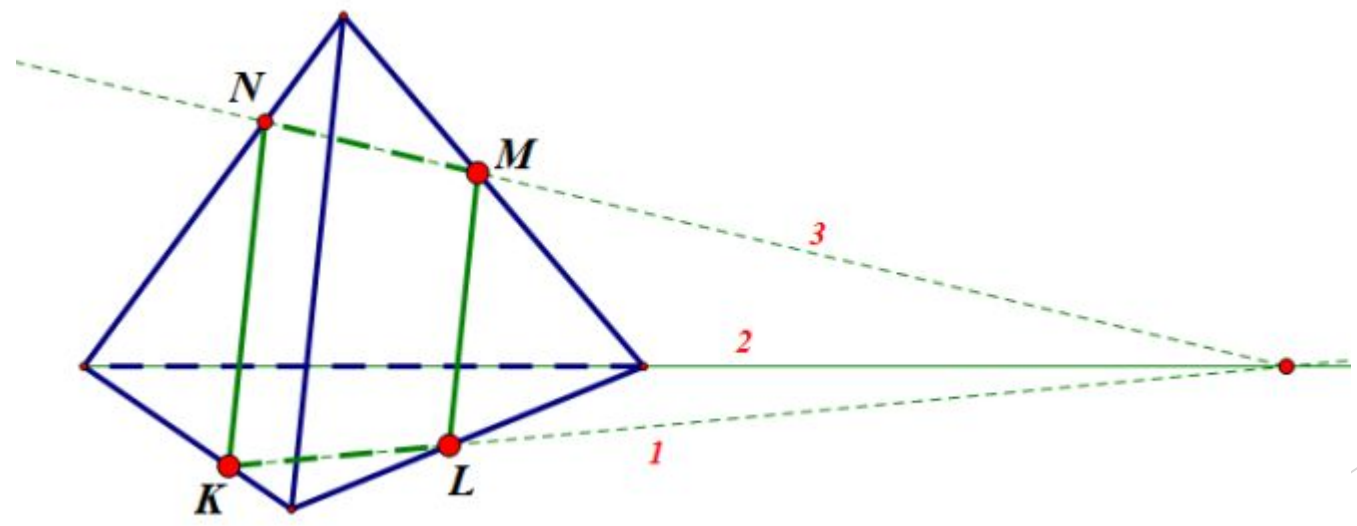
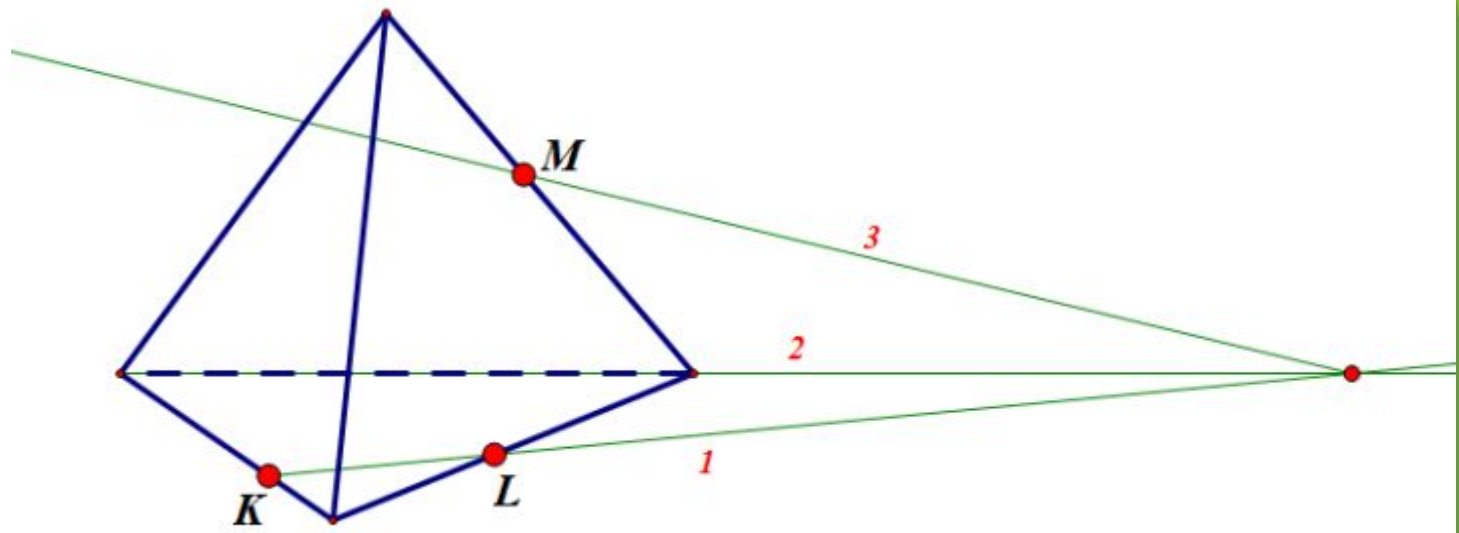
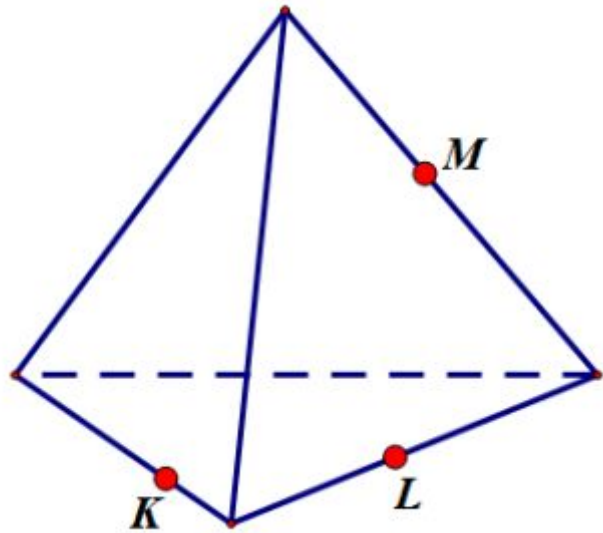
$$V = \frac{1}{3} \cdot S \cdot H ,$$

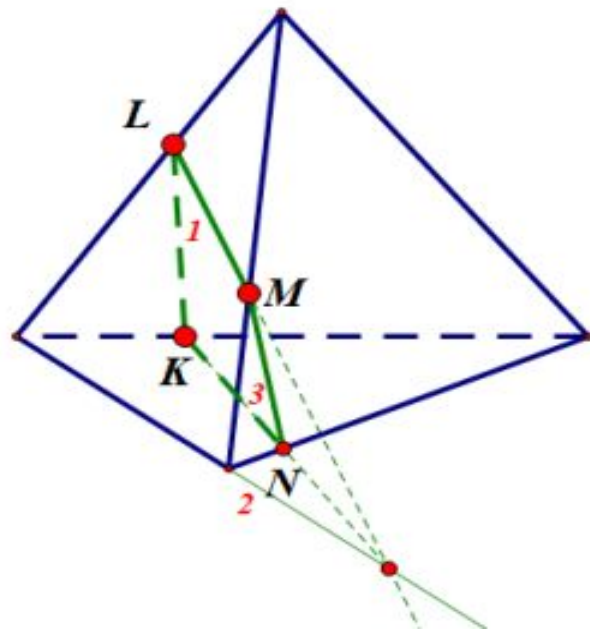
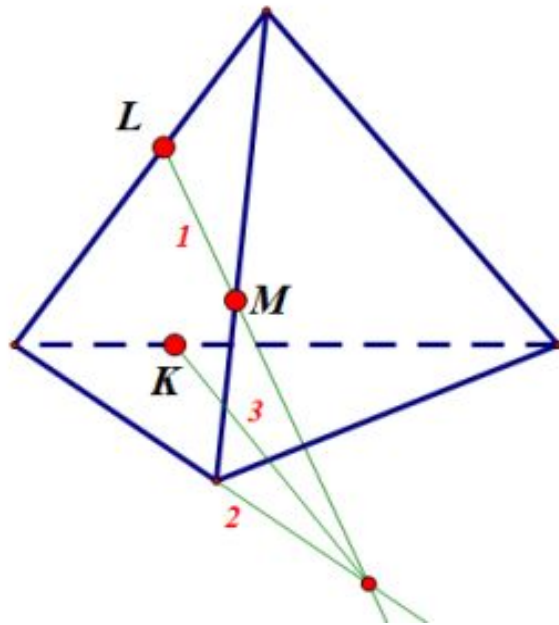
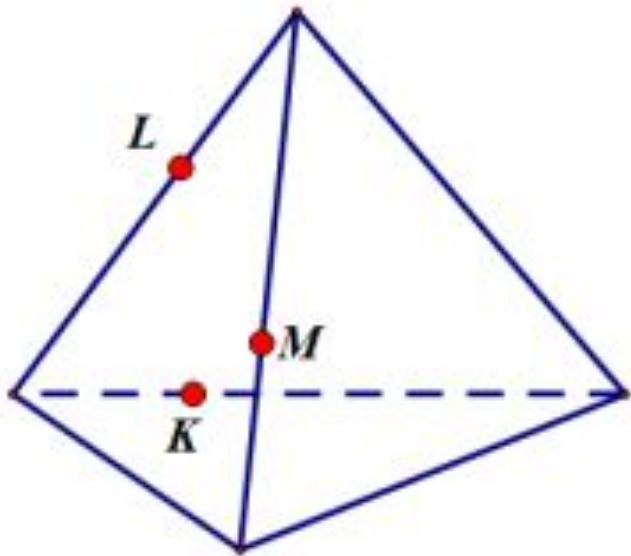
S – площадь основания пирамиды ,

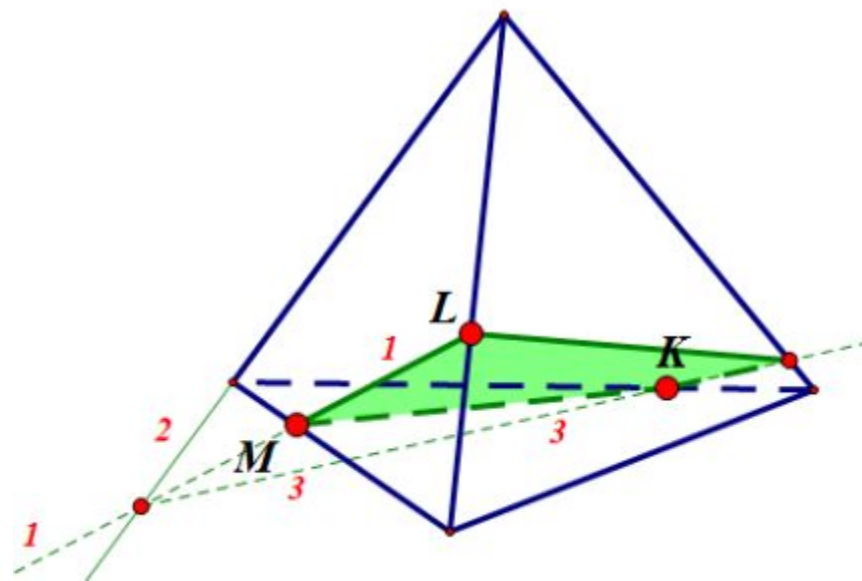
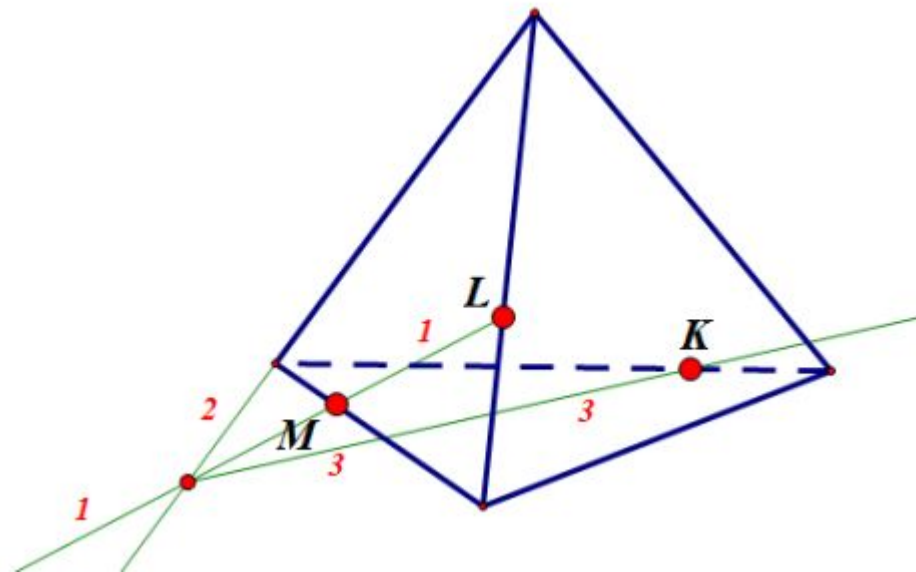
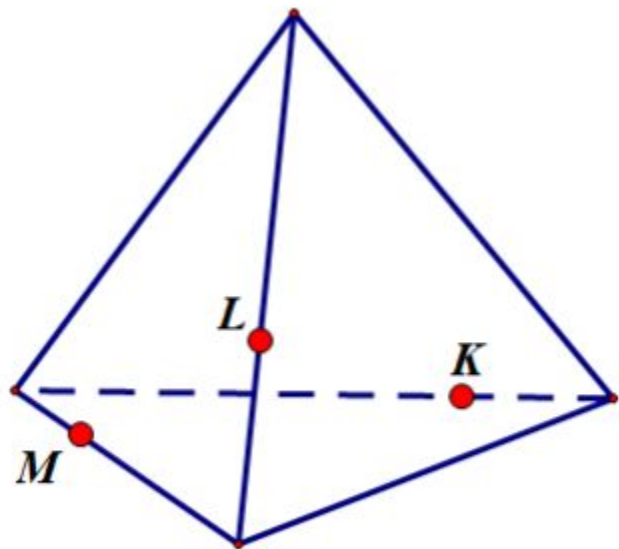
H – высота пирамиды, проведённой к основанию.

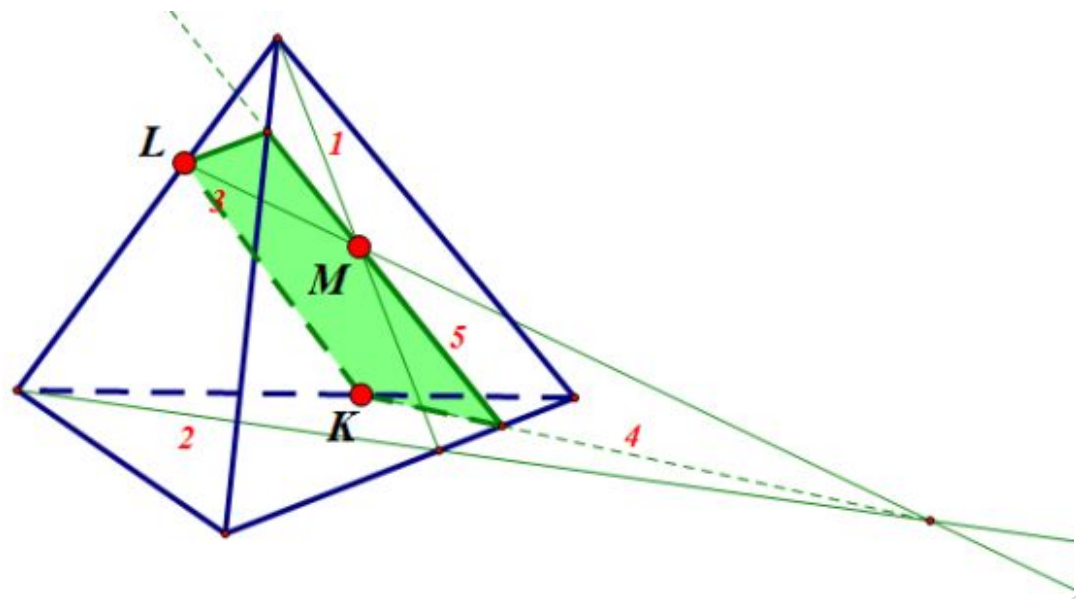
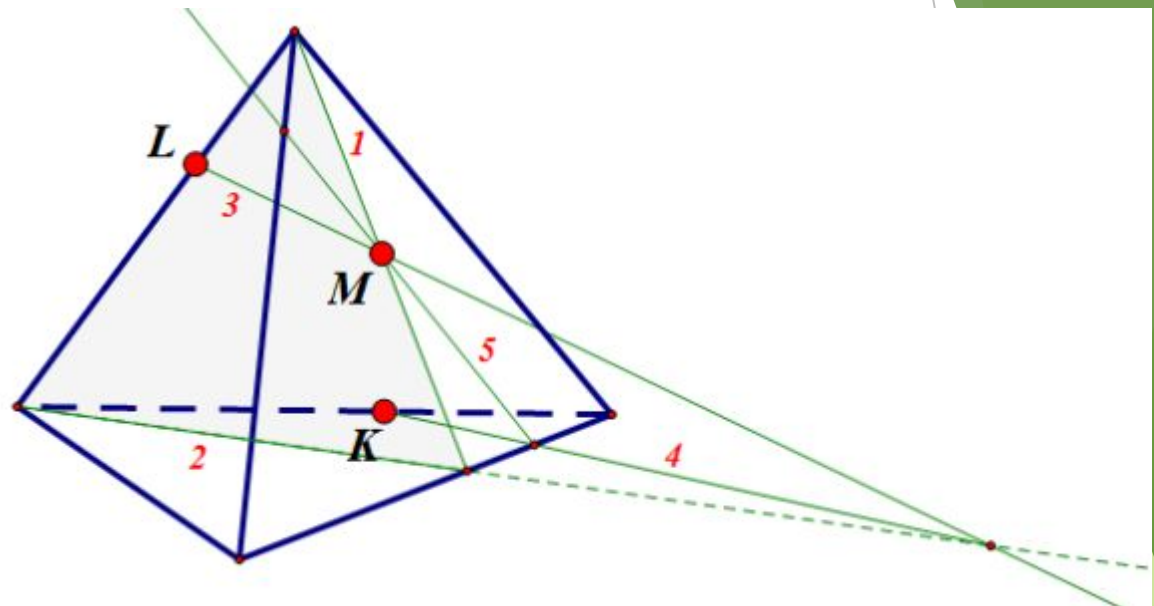
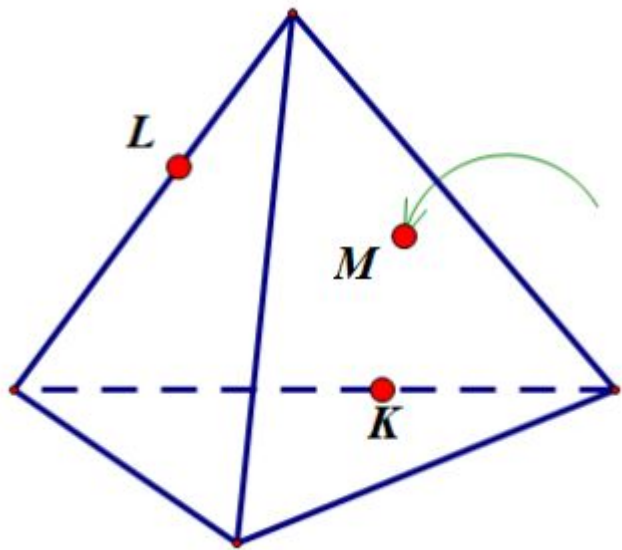
Дан куб $ABCA_1B_1C_1D_1$. A_2 – середина стороны AA_1 , D_2 – середина стороны DD_1 , $AA_1 = \sqrt[4]{5}$. Найдите площадь плоскости сечения, проходящей через точки A_2 , D_2 и B_1 .

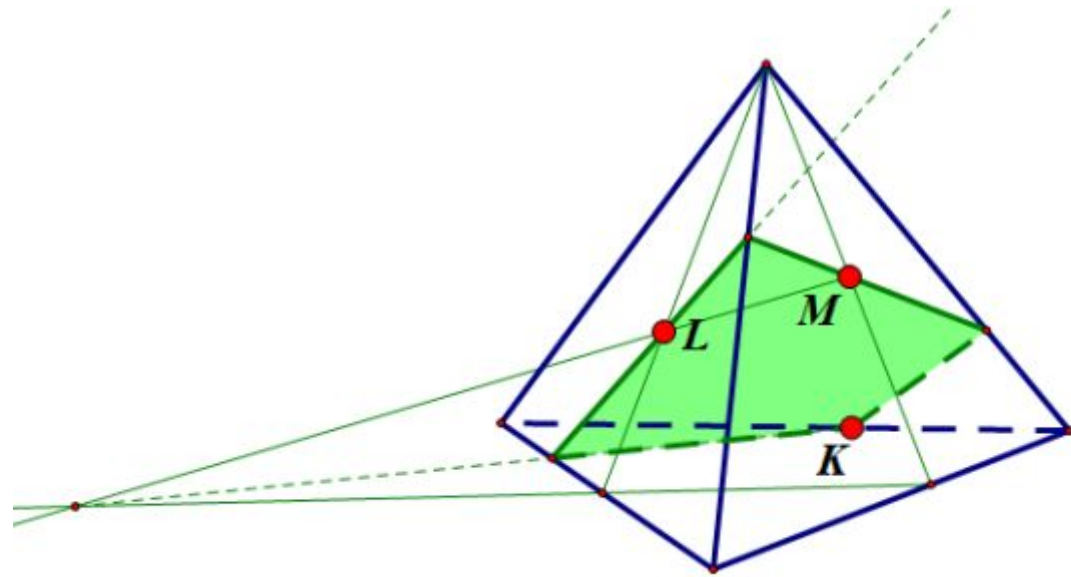
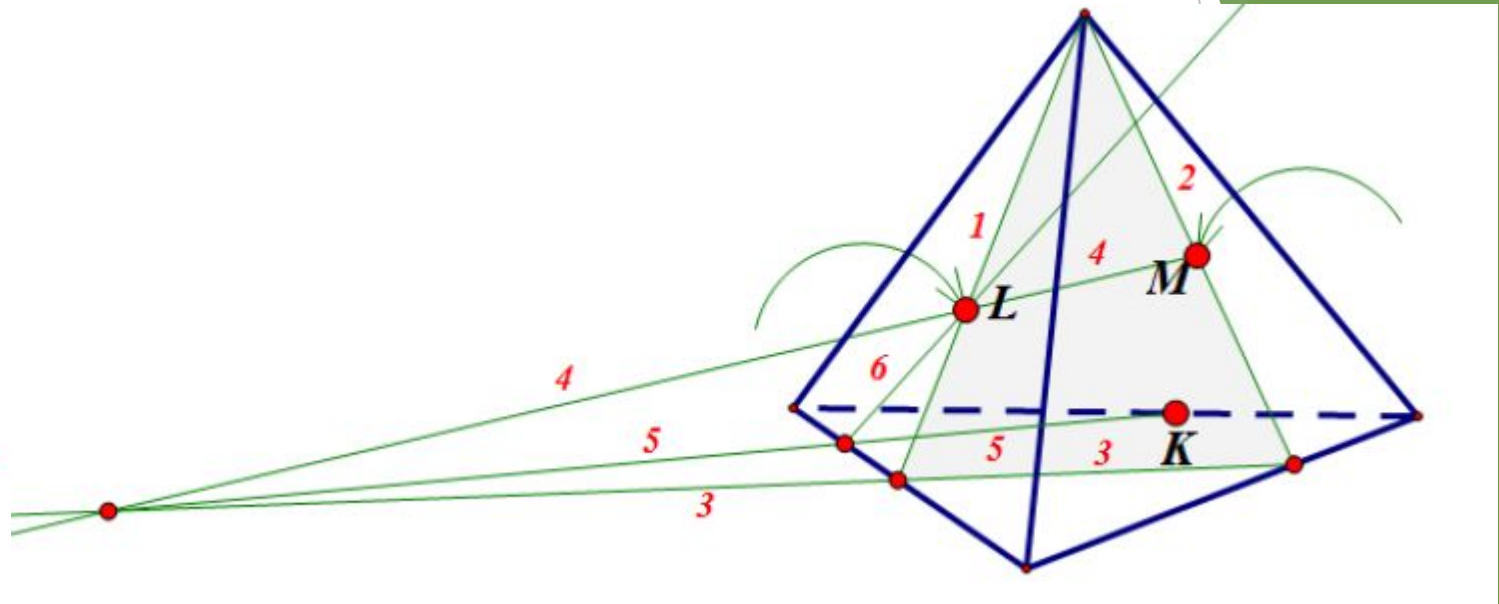
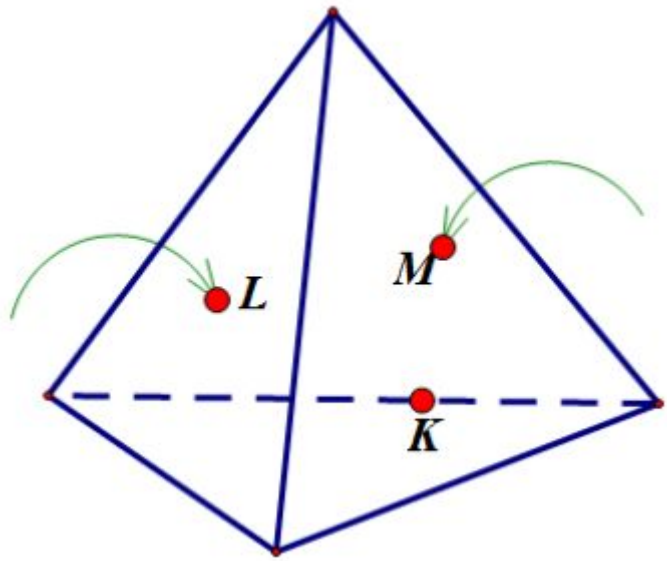


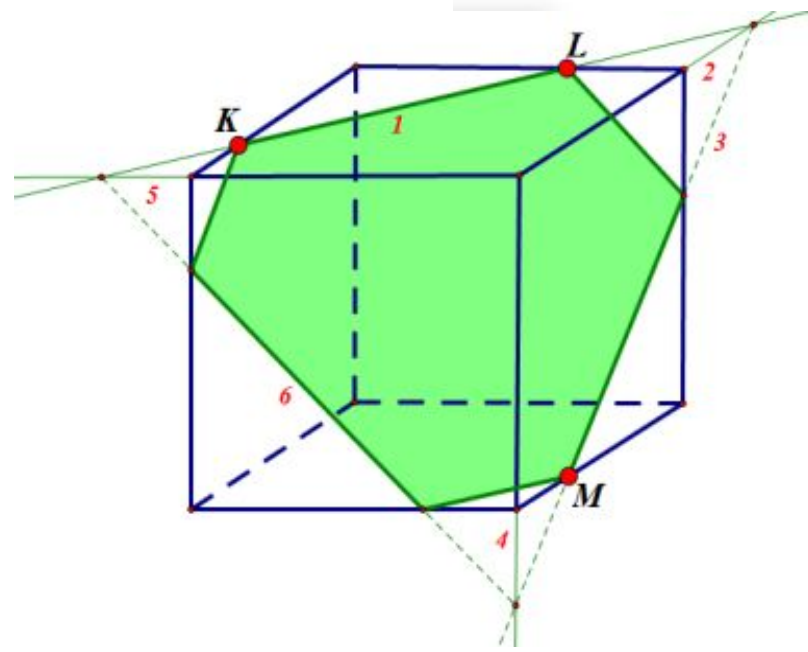
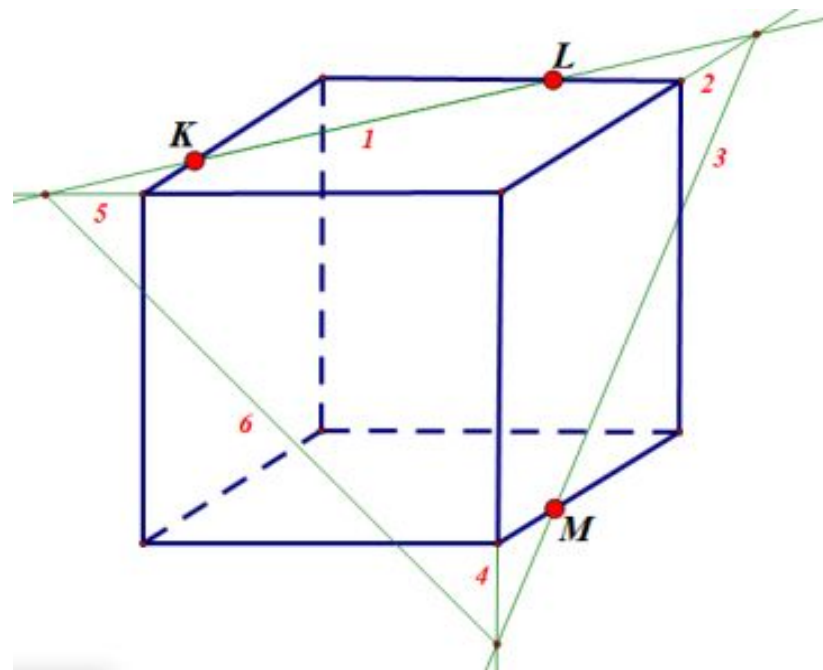
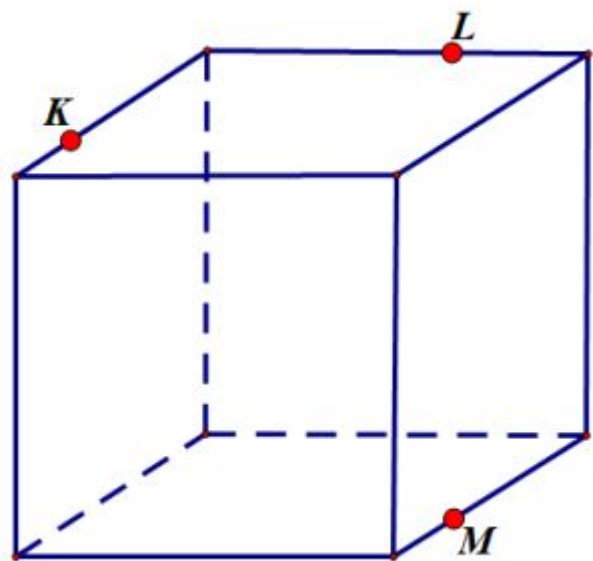


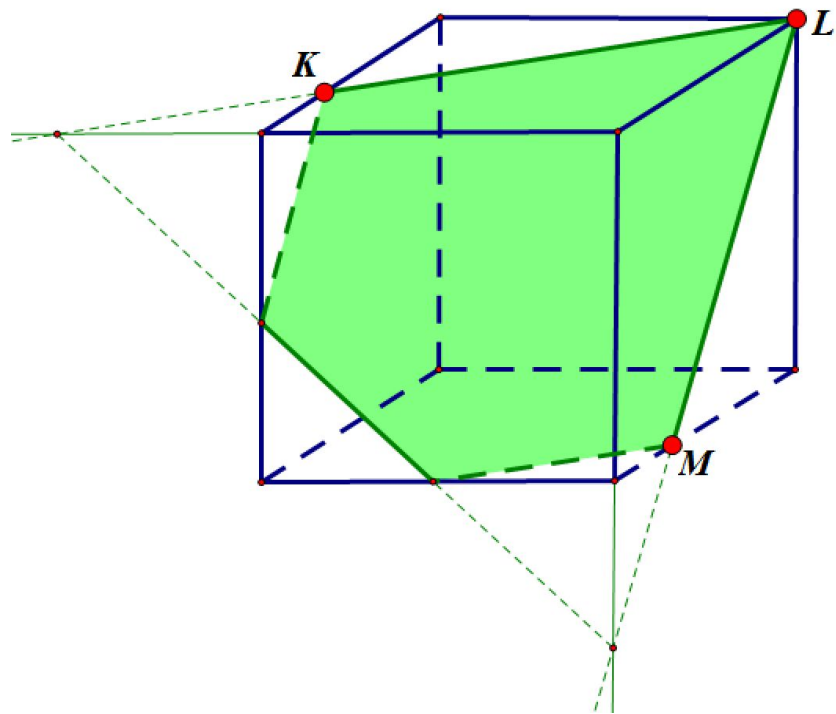
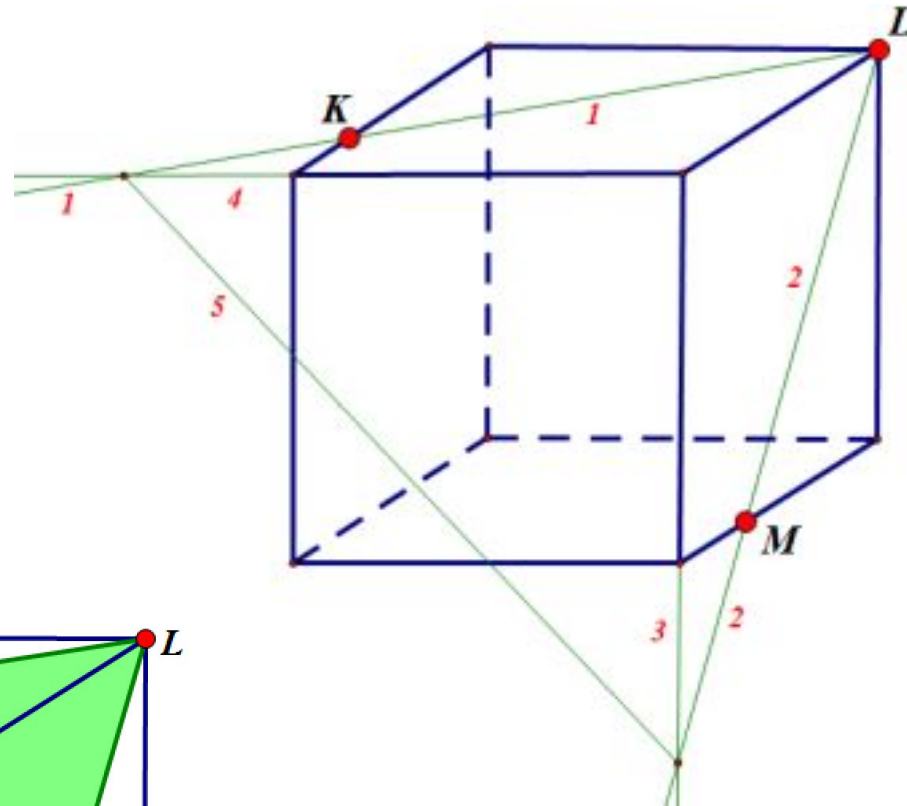
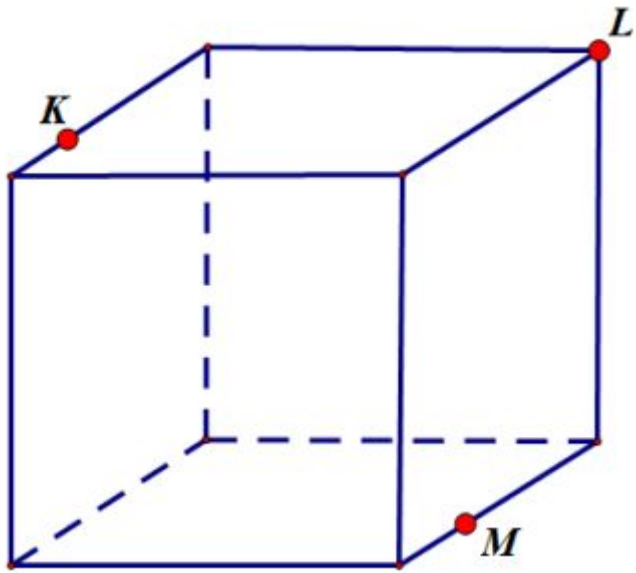


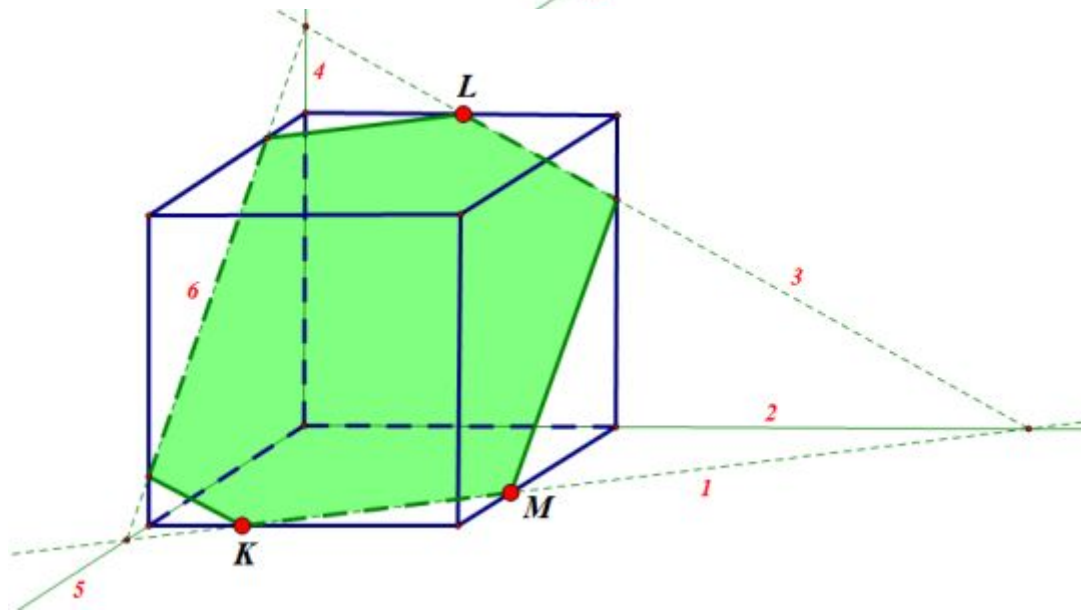
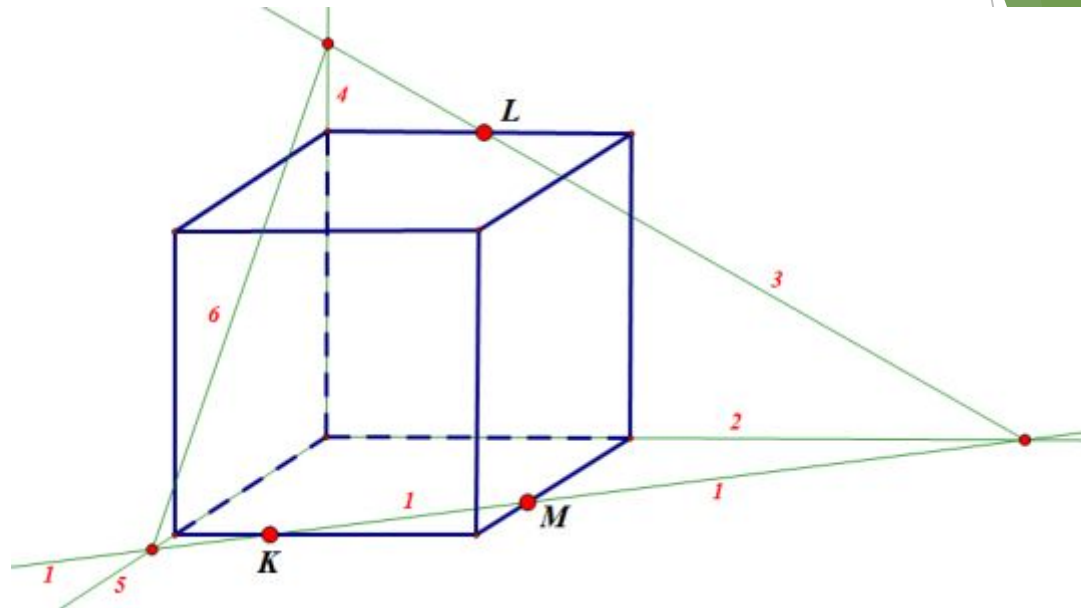
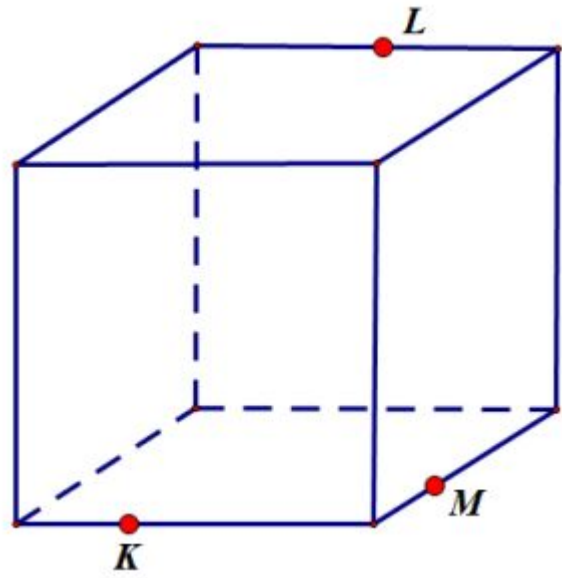


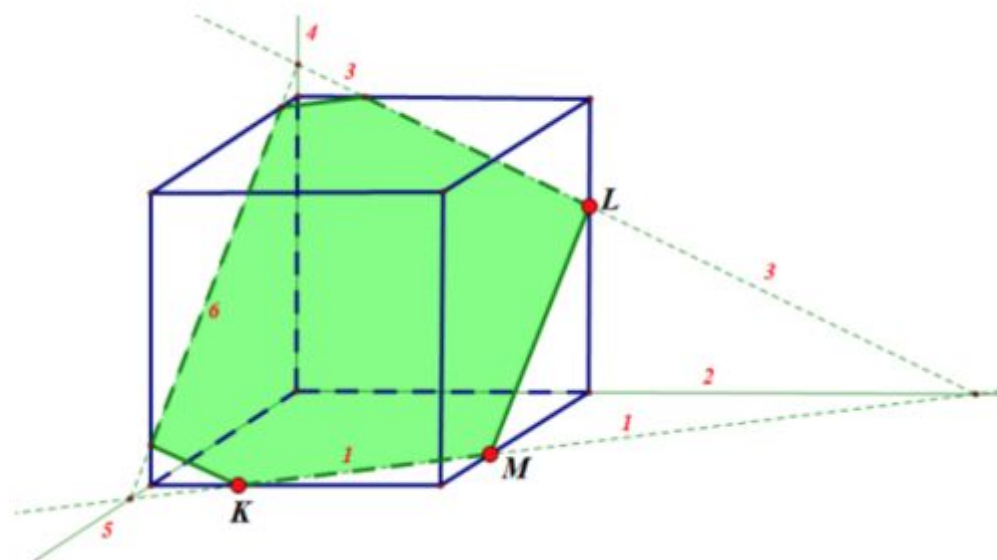
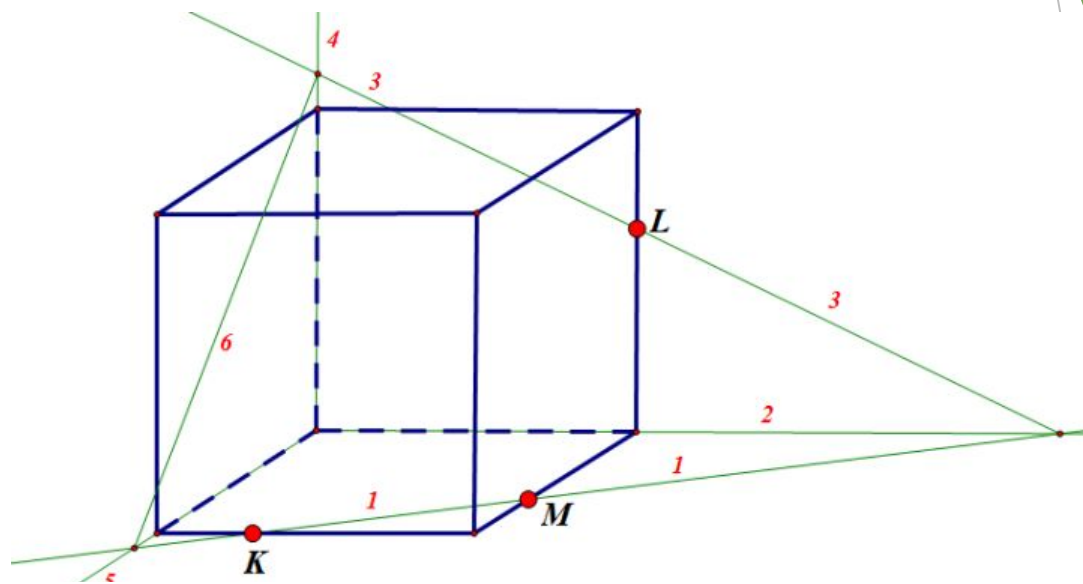
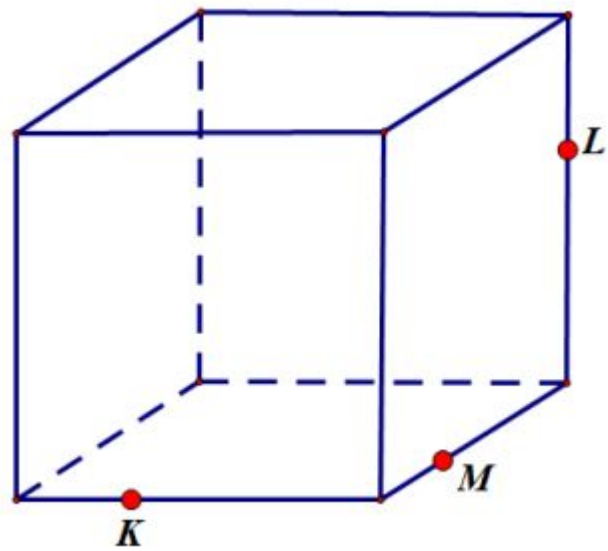


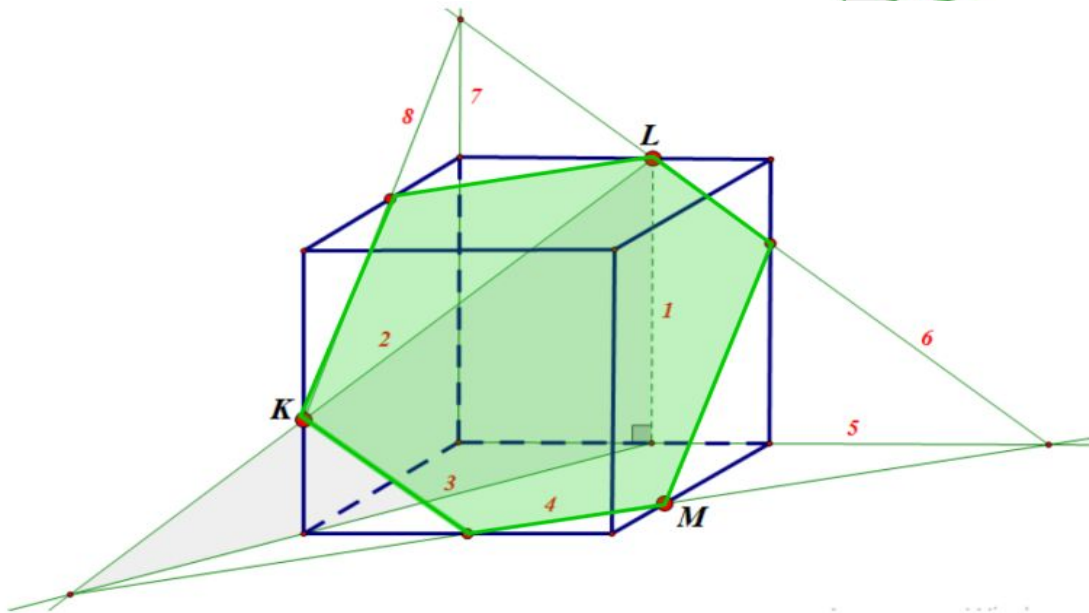
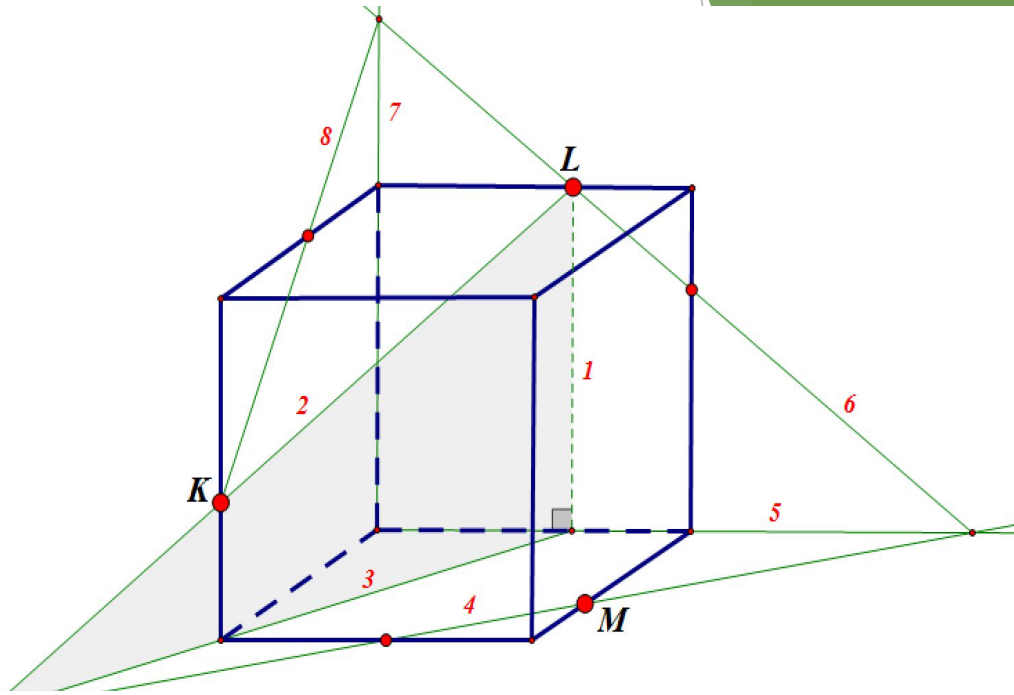
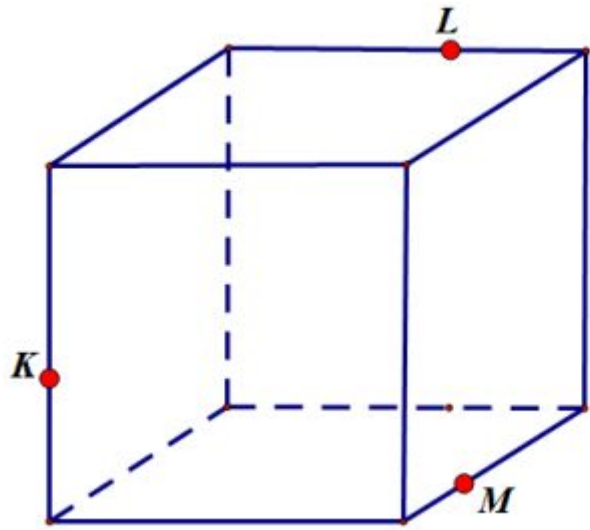


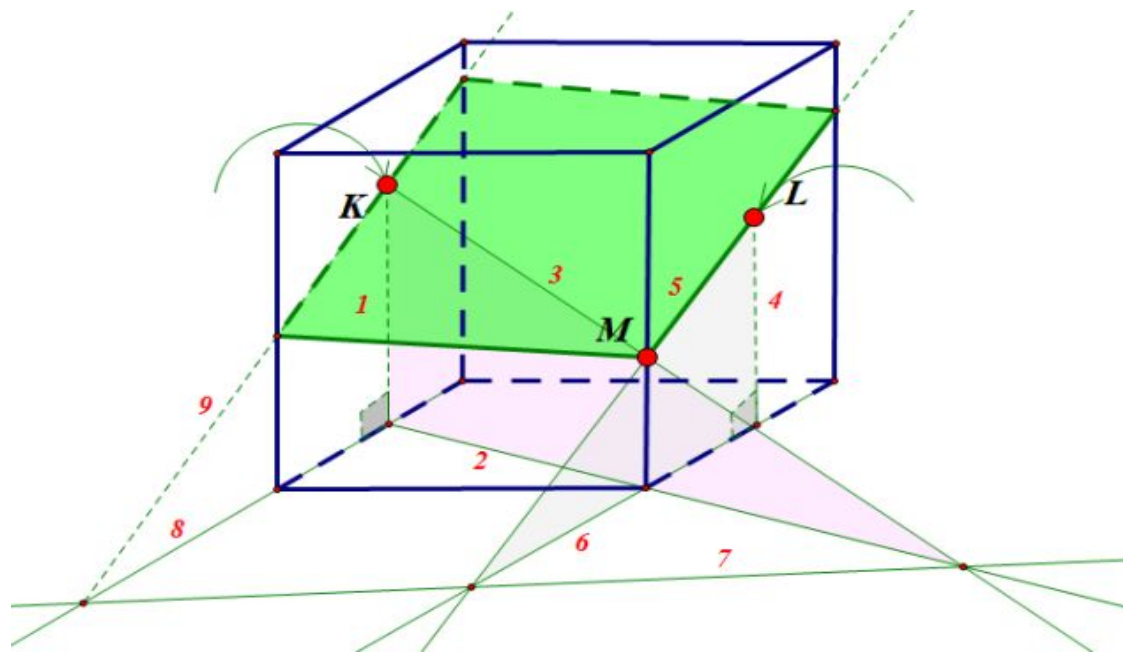
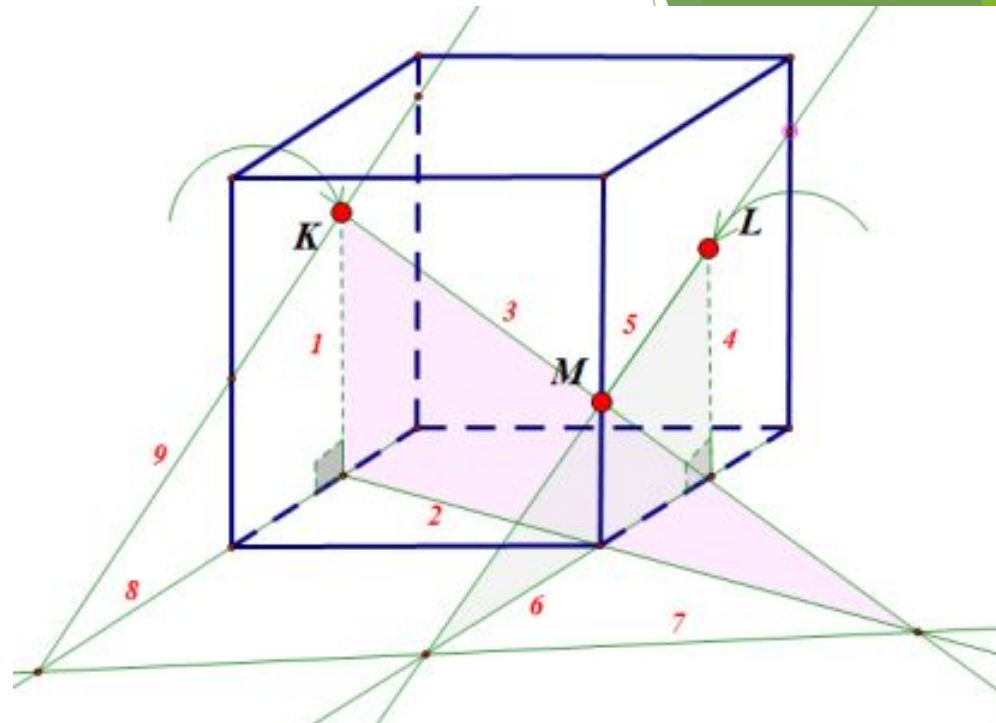
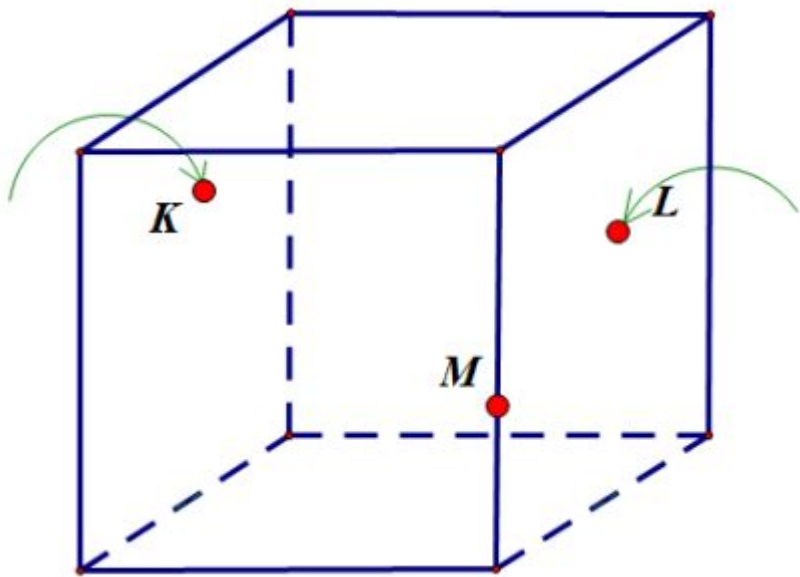












И. В. Фельдман, репетитор по математике.

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