

SPECIFICS OF MUTUALLY INTERSECTING REGULAR PYRAMIDS WITH A COMMON BASE

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Abstract. The article addresses the specific characteristic features of mutually intersecting regular pyramids with a common base. Advanced is a new theorem that proves to be highly effective when the objects are placed in a particular position.

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1. Introduction

The problem of finding the mutual intersection of two angular shapes or, in other words, the line of intersection between two angular objects can be solved in several ways:

- Presented, first, are the piercing points of the edges along the respective lateral faces (sides), and then the one-dimensional projections are joined in succession with each pair of piercing points lying on one side of one of the polyhedrons and simultaneously on one side of the other.
- Marked are the line segments in which the sides of one of the polyhedrons cut across the respective sides of the other. These segments are part of the spatial line of intersection and indicate the piercing points and the line of intersection between the objects.
- A combination of the two methods.

Constructing the line of polyhedral intersection could be greatly simplified if the objects are right and set in a particular position, for example, when their edges and