Exercises

E22.2 [1Q8] Fix $a > 0, b > 0, c > 0$. Determine a plane tangent to the ellipsoid

$$x^2/a^2 + y^2/b^2 + z^2/c^2 = 1$$

at a point with $x, y, z > 0$, so that the tetrahedron bounded by this plane and the coordinated planes has minimum volume.

Solution 1. *[1Q9]*