Geometry 1e - Practice

4th class - 07.10.2025.

- 1. In ABC_{Δ} , A(-2, -1), B(6, -3) and C(2,5). Determine the coordinates of the
 - a. centroid
 - b. orthocenter
 - c. circumcenter
 - d. incenter*
- 2. What is the value of a, if ax y = 2 and x ay + 3a + 1 = 0 intersect each other on y = 2x?
- 3. In ABC_{Δ} , A(-3, -1), the altitude and medain lines through C have the equations 2x + y = 3 and x y = 1, respectively. Determine the missing vertices.
- 4. * In ABC_{Δ} , A(0,3), B(6,0) and C(6,4). Determine the equation of the line that is parallel to x-4y=0 and divides the triangle into two parts that have equal area.
- 5. In ABC_{Δ} we know that AC: 3x 10y + 8 = 0, $m_a: x + 14y + 20 = 0$, $m_c: 5x 8y = 4$. Determine m_b and the vertices of the trainagle.
- 6. Give the distance of a given line $l(P_0(x_0, y_0), \underline{n}(A, B))$ to a given point P(x, y).