1. Find an equation of the plane which is perpendicular to vector 
\((4, 12, -3)\) and is at distance 4 from the origin.

2. Find an equation of the plane if the projection of the origin to 
this plane has radius-vector \(r_1\).

3. Find an equation of the plane passing through the point \((5, -3, 2)\) 
and the axis \(x\).

4. Find the orthogonal projection of the point \((5, 1, 2)\) to the plane 
\(2x - y + 4z = 5\).

5. Find an equation of the line passing through the origin and meet-
ing lines \(a_1 \times r = b_1\) and \(a_2 \times r = b_2\).

6. For the triangle with vertices \((4, 1, -2)\), \((2, 0, 0)\) and \((-2, 3, -5)\), 
find an equation of the height passing through the vertex \((2, 0, 0)\).