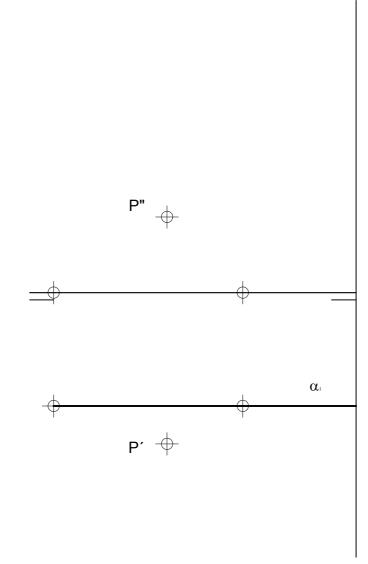
Find the equation of the line that containing the point P(5,3,2) is perpendicular to the plane that passes through the points (7,0,0) and (4,3,0) and is perpendicular to the plane XOY. Obtain the intersection.

Draw from the point P a line p that is perpendicular to α . Find also the intersection between the line and the plane (I).



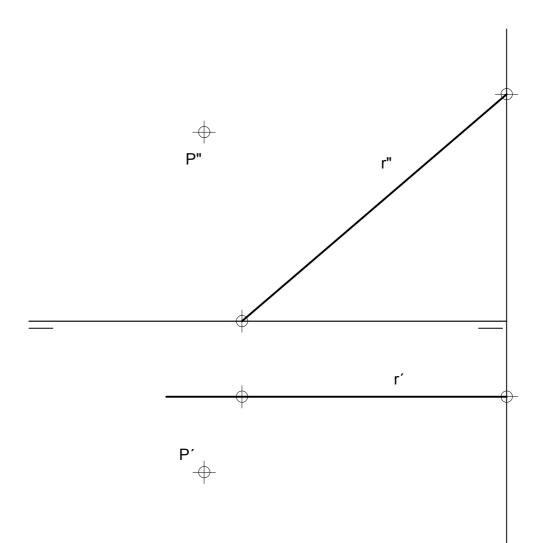






Find the plane that containing the point P(8,5,4) is perpendicular to the line that passes through the points (7,2,0) and (0,2,6). Obtain the intersection.

Draw from the point P a plane α that is perpendicular to r. Find also the intersection point between the line and the plane (I).







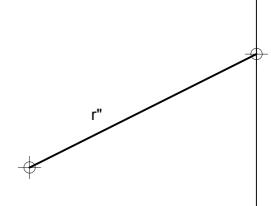


Calculate the line that passing through the point P(12,3,6) is perpendicular and intersects the line r: $\frac{x-6}{-6} = \frac{y-5}{3} = \frac{z-4}{3}$. Obtain the intersection.

Draw from the point P a line that intersects the line r and is perpendicular to it.

Find also the intersection between the two lines.









Let r be the line determined by the points (4,1,3) and Q(0,1,6), and α the plane determined by the points (10,0,0), (6,0,5) and (4,5,0). Find the planes that containing the line r are perpendicular to the plane α .

Draw from the points P and Q perpendicular planes to the plane α .

