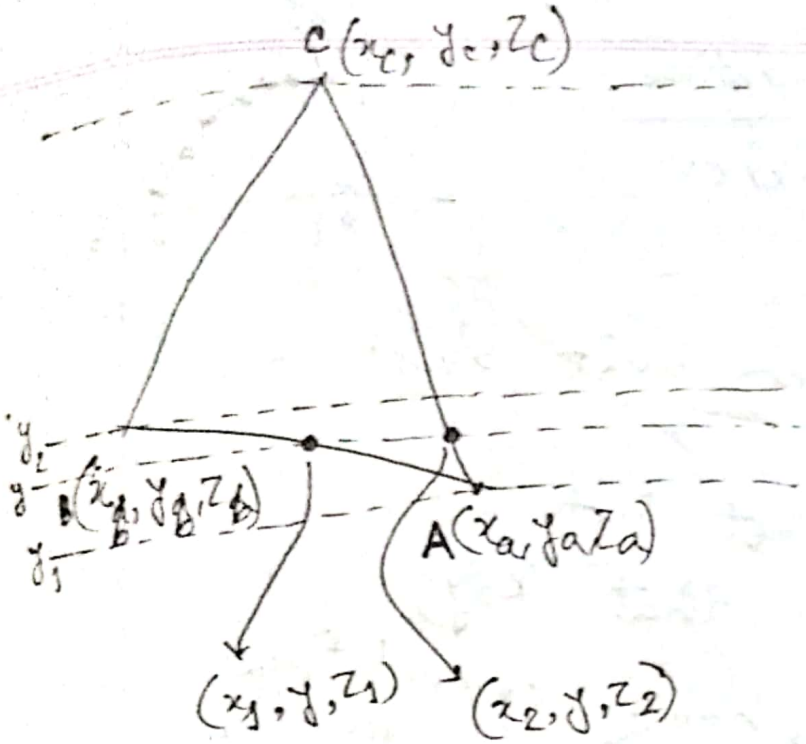

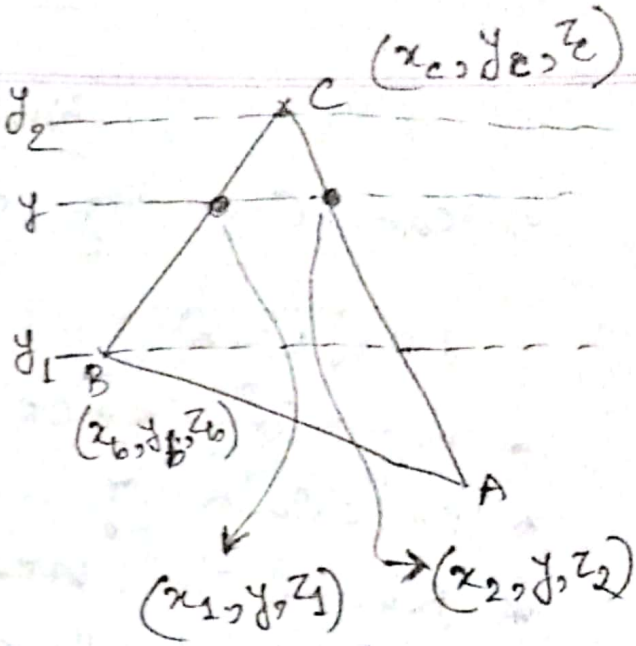

$$* \quad \frac{x_b - x_c}{x_1 - x_c} = \frac{y_b - y_c}{y - y_c} = \frac{z_b - z_c}{z_1 - z_c}$$

$$\therefore \boxed{x_1 = x_c + \frac{(x_b - x_c)\cdot(y - y_c)}{(y_b - y_c)}}$$

$$\boxed{z_1 = z_c + \frac{(z_b - z_c)\cdot(y - y_c)}{(y_b - y_c)}}$$

$$* \quad \frac{x_b - x_a}{x_{b_1} - x_a} = \frac{z_b - z_a}{z_{b_1} - z_a} = \frac{y_b - y_a}{y_b - y_a}$$

$$\therefore \boxed{x_1 = x_a + \frac{(x_b - x_a)\cdot(-y_b + y)}{y_b - y_a}}$$

$$= \boxed{x_a + \frac{(x_b - x_a)\cdot(y - y_b)}{y_b - y_a}}$$

$$\text{and, } \boxed{z_1 = z_a + \frac{(z_b - z_a)\cdot(y - y_b)}{y_b - y_a}}$$

$$* \quad \frac{x_c - x_a}{x_2 - x_c} = \frac{y_c - y_a}{y - y_c} = \frac{z_c - z_a}{z_2 - z_c}$$

$$\therefore \boxed{x_2 = x_c + \frac{(x_c - x_a)\cdot(y - y_c)}{(y_c - y_a)}}$$

$$\boxed{z_2 = z_c + \frac{(z_c - z_a)\cdot(y - y_c)}{(y_c - y_a)}}$$

$$* \quad \frac{x_c - x_a}{x_2 - x_a} = \frac{y_c - y_a}{y_c - y_a} = \frac{z_c - z_a}{z_2 - z_a}$$

$$\therefore \boxed{\begin{aligned} x_2 &= x_a + (x_c - x_a)\cdot(y - y_a)/(y_c - y_a) \\ z_2 &= z_a + (z_c - z_a)\cdot(y - y_a)/(y_c - y_a) \end{aligned}}$$