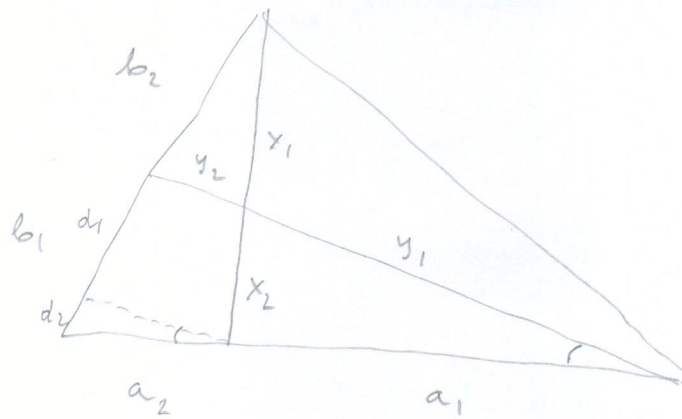


①



$$\frac{b_1 d_2}{a_2} = \frac{b_1 b_1}{a_1 + a_2}$$

$$\frac{x_1}{x_2} = \frac{a_1}{a_2}$$

$$d_2 = \frac{a_2 b_1}{a_1 + a_2}$$

$$d_1 = b_1 - d_2 = \frac{a_1 b_1}{a_1 + a_2}$$

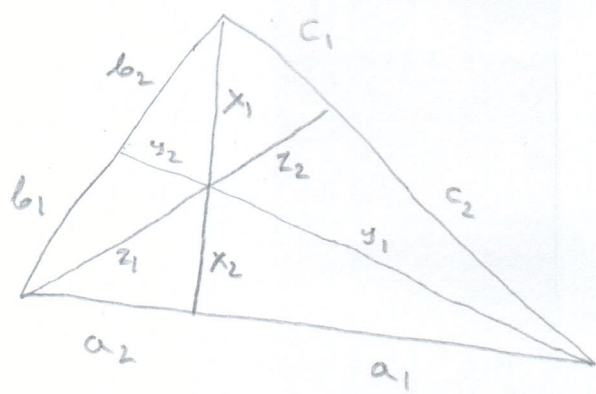
$$\frac{x_1}{x_2} = \frac{b_2}{d_1} = \frac{b_2 (a_1 + a_2)}{a_1 b_1} = \frac{b_2}{b_1} \left(1 + \frac{a_2}{a_1} \right)$$

$$\boxed{\frac{x_1}{x_2} = \frac{b_2}{b_1} \left(1 + \frac{a_2}{a_1} \right)}$$

Zatem

$$\boxed{\frac{y_1}{y_2} = \frac{a_1}{a_2} \left(1 + \frac{b_1}{b_2} \right)}$$

2



$$\frac{x_1}{x_2} = \frac{c_1}{a_1} \left(1 + \frac{a_1}{a_2} \right) = \frac{b_2}{b_1} \left(1 + \frac{a_2}{a_1} \right)$$

$$\frac{c_1}{c_2 a_2} = \frac{b_2}{b_1 a_1}$$

$$a_1 b_1 c_1 = a_2 b_2 c_2$$

$$\frac{z_1}{z_2} = \frac{b_1}{b_2} \left(1 + \frac{c_1}{c_2} \right) = \frac{b_1}{b_2} \left(1 + \frac{a_2 b_2}{a_1 b_1} \right)$$

$$\frac{z_1}{z_2} = \frac{b_1}{b_2} + \frac{a_2}{a_1}$$

Dia $\frac{a_1}{a_2} = \frac{b_1}{b_2} = 2$ many

$$\frac{c_1}{c_2} = \frac{1}{4}$$

$\frac{x_1}{x_2}$

3



$$P(\Delta O C A') = \frac{a_2}{a_1 + a_2} P(\Delta O C B)$$

$$= \frac{a_2}{a_1 + a_2} \frac{x_2}{x_1 + x_2} S$$

$$P(\Delta \cup CB') = \frac{b_1}{b_1 + b_2} P(\Delta \cup CA)$$

$$= \frac{b_1}{b_1 + b_2} \frac{y_2}{y_1 + y_2} S$$

$$P(\Delta \cap B' \cap A') = \left[\frac{a_2 x_2}{(u_1 + a_2)(x_1 + x_2)} + \frac{b_1 y_2}{(b_1 + b_2)(y_1 + y_2)} \right] S$$

Oznaczmy $\alpha = \frac{a_1}{a_2}$, $\beta = \frac{b_1}{b_2}$. Wzrostnie w numerze wynosi

$$\frac{(1+\alpha) \left[1 + \frac{1}{\beta} \left(1 + \frac{1}{2} \right) \right] \left(+ \frac{y_1}{y_2} \right)}{(1+\beta) \left[1 + \alpha (1+\beta) \right]}$$

$$D1a = \alpha = \beta = 2 \quad \text{otrymanny}$$

$$\frac{1}{(1-\alpha) \left[1 + \beta \left(1 + \frac{1}{\alpha} \right) \right]} + \frac{2}{3 \cdot 7} = \frac{4}{3 \cdot 7} + \frac{2}{3 \cdot 7} = \frac{2}{7}$$