

$$\begin{cases} x - \frac{1}{y} = 0 \\ y - \frac{1}{x} = 0 \end{cases} \Rightarrow x = \frac{1}{y}$$

$$y - \frac{1}{\frac{1}{y}} = 1 \Rightarrow y - \frac{1}{\frac{1}{y}} = y - x \cdot \frac{y}{x}$$

$$\begin{aligned} -y &= 1 \\ y &= -1 \end{aligned}$$

①

$$x - \left(-\frac{1}{1}\right) = x - (-1) = 0 \Rightarrow x + 1 = 0 \Rightarrow x = -1$$

$$\begin{cases} x - \frac{1}{y} = 1 \\ y - \frac{1}{x} = 2 \end{cases} \Rightarrow x = 1 + \frac{1}{y} \Rightarrow \frac{1+y}{y}$$

$$y = 1 : \frac{1+y}{y} = 2$$

$$y - \frac{1}{1} = \frac{y}{1+y}$$

$$\frac{y}{1+y} - \frac{y}{1+y} = 2$$

$$\frac{y+y^2}{1+y} - y - 2 = 0$$

$$D = 4 + 4 \cdot 2 = \sqrt{4 \cdot 2} = 2$$

$$y_{1/2} = \frac{-2 \pm 2}{2} = \begin{cases} 0 \\ -2 \end{cases}$$

x = 1

$$y \frac{y+y^2-y}{1+y} - \frac{2}{1} = 0$$

$$y - y + y^2 - 2 + 2y = 0$$

$$y^2 + 2y - 2 = 0$$

$$x - \left(-\frac{1}{2}\right) = 1$$

$$x = \frac{2}{2} - \frac{1}{2} = \frac{1}{2}$$

$$\begin{array}{r} 599 \overline{)12} \\ - 48 \\ \hline 119 \\ - 108 \\ \hline 11 \end{array}$$

2) max!

$$(12 \cdot 7 + 7 = 84 + 7 = 91)$$

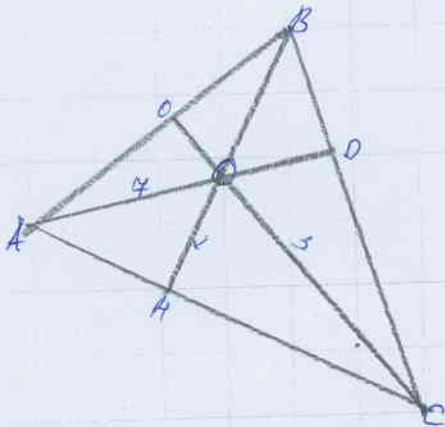
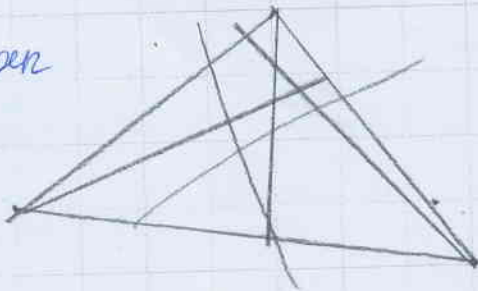
$$\begin{aligned} \text{a) } x \cdot 12 + 7 &\Rightarrow 87 \cdot 12 + 7 = 599 \\ y \cdot 42 + 11 &= 25 \cdot 42 + 11 = 599 \end{aligned}$$

$$x/599: \cancel{599} 25 \ 1061$$

$$\begin{aligned} \text{б) } x \cdot 11 + 7 &\Rightarrow 8 \cdot 11 + 7 = 95 \\ y \cdot 42 + 11 &\Rightarrow 2 \cdot 42 + 11 = 95 \end{aligned}$$

$$x/599 \ 95$$

3 - max



$$HL = \sqrt{9 - 4} = \sqrt{5}$$

$$AH = 49 - 4 = 45 = 9 \cdot 5$$

$$3\sqrt{5} + \sqrt{5} = 3 \cdot 5 = 15$$

$$AC = 15$$

0