

$$\begin{cases} x:12=2 \\ y:42=11 \end{cases} \Rightarrow \begin{cases} x=2 \cdot 12 \\ y=11 \cdot 42 \end{cases} \Rightarrow \begin{cases} x=24 \\ y=462 \end{cases}$$

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

$$x = \frac{1}{y}$$

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

$$y = 1 + y$$

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

$$x + \frac{1}{x} = 1$$

$$x(1 + \frac{1}{x}) = 1$$

$$x \cdot \frac{x+1}{x} = 1$$

$$\begin{aligned} x &= 0 \\ x &= 0 \end{aligned}$$

$$x(1 + \frac{1}{x}) = 1$$

$$\begin{aligned} x - \frac{1}{y} &= 0 \\ y &= 1 + \frac{1}{x} \end{aligned}$$

$$x - \frac{1}{1 + \frac{1}{x}} = 0$$

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

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

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

$$y(1 + \frac{1}{y}) = 1$$

$$\begin{aligned} y &= 1 \\ -y &= 0 \end{aligned}$$

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

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

$$\begin{aligned} x &= 1 + \frac{1}{2 + \frac{1}{x}} \\ x &= 1 - 2 + \frac{1}{x} \end{aligned}$$

$$\textcircled{y = 1} \quad x - \frac{1}{x} = -1$$

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

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

$$\begin{aligned} y - \frac{1}{\frac{1}{y}} &= 1 & x \cdot \frac{1}{x} \\ y + \frac{1}{y} &= 1 & \Rightarrow \cancel{x} - \frac{1}{1+\frac{1}{x}} = 0 \\ y(1 + \frac{1}{y}) &= 1 & x + 1 + \frac{1}{x} = 0 \\ y &= 1 & x + \frac{1}{x} = 1 \\ & & x(1 + \frac{1}{x}) = 1 \\ & & x = 1 \end{aligned}$$

$$\begin{cases} x - \frac{1}{y} = 1 \\ y - \frac{1}{x} = 2 \end{cases} \Rightarrow \begin{cases} x = 1 + \frac{1}{y} \\ y = \frac{1}{1 + \frac{1}{y}} = 2 \end{cases} \quad \begin{cases} \cancel{x} - \frac{1}{y} = 1 & x - \frac{1}{2 + \frac{1}{x}} = 1 \\ y = 2 + \frac{1}{x} & x + 2 + \frac{1}{x} = 1 \\ & x + \frac{1}{x} = -1 \\ & x(\frac{1-x}{1}) = 1 \end{cases}$$

$$\begin{aligned} y + 1 + \frac{1}{y} &= 2 \\ y + \frac{1}{y} &= 1 \\ y(1 + \frac{1}{y}) &= 1 \\ y &= 1 \end{aligned}$$

а) жауабы жоқ Ойткені

$$\frac{53}{12} = 4 \frac{5}{12} \quad \frac{95}{12} = 7 \frac{11}{12} \quad 5+11 \text{ қайталанба бұл}$$

б) $11+42=53+42=95$

$$\frac{95}{11} = 8 \frac{7}{11}$$

$$\frac{95}{42} = 2 \frac{11}{42}$$

