

№1

а) $x = \frac{1}{\frac{1}{y} - 1}$
 $y = \frac{1}{x} - 1$

б) $x = \frac{1}{\frac{1}{y} - 1}$
 $y = \frac{1}{x} - 2$

№3



№2

а) 104

б) 102

$$\frac{x}{12} = 2 \frac{1}{2}$$

$$12 = 2x$$

$$x = 6$$

$$\frac{x}{42} = 0,11 \frac{1}{2}$$

$$\frac{x^2 - 1}{8} = \frac{x^2 - 1}{x} - 1$$

$$\begin{array}{r} 70 \overline{) 12} \\ -14 \\ \hline 20 \\ -14 \\ \hline 6 \end{array}$$

$$\frac{x^2 - 1}{8} = x$$

$$\begin{array}{r} 10 \overline{) 0,25} \\ -20 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 25,911} \\ -20 \\ \hline 59 \\ -58 \\ \hline 11 \\ -10 \\ \hline 1 \end{array}$$

$$x^2 - 1 = 8x - 8$$

$$x^2 - 8x + 7 = 0$$

$$\frac{x^2 - 1}{8} = \frac{x^2 - 1}{x} - 1$$

$$\begin{cases} \frac{x^2 - 1}{8} = 0 \\ \frac{x^2 - 1}{x} = 1 \end{cases}$$

$$\frac{x^2 - 1}{8} = 0$$

- 27
- 19
- 21
- 29
- 35
- 42
- 49
- 56
- 63
- 70

$$\begin{array}{r} 42 \overline{) 11} \\ -42 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 42 \overline{) 22} \\ -84 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 42 \overline{) 33} \\ -84 \\ \hline 33 \end{array}$$

- 11
- 22
- 33
- 44
- 55
- 66
- 77
- 88
- 99

$$\begin{array}{r} 220 \overline{) 42} \\ -440 \\ \hline 420 \\ -440 \\ \hline 20 \end{array}$$

$$\frac{x^2 - 1}{8} = \frac{x^2 - 1}{x}$$

$$\begin{array}{r} 42 \overline{) 62} \\ -84 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 42 \overline{) 11} \\ -84 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 42 \overline{) 70} \\ -84 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 14 \overline{) 12} \\ -28 \\ \hline 20 \\ -14 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 21 \overline{) 12} \\ -42 \\ \hline 21 \\ -21 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 20 \overline{) 42} \\ -40 \\ \hline 20 \\ -20 \\ \hline 2 \end{array}$$

$$\begin{cases} x^2 - 1 = 0 \\ 8x - 1 = 1 \end{cases}$$

$$\begin{cases} \frac{x^2 - 1}{8} = 0 \\ \frac{x^2 - 1}{x} = 1 \end{cases}$$

$$(x^2 - 1)(x^2 - 1)$$

$$x^2 - 1 = 8x - 8$$

$$x^2 - 8x + 7 = 0$$

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

$$\frac{x^2 - 1}{8} + \frac{x^2 - 1}{x} = 1$$

$$\frac{x^2 - 1}{8} \cdot \frac{x^2 - 1}{x} = 0$$

$$\begin{array}{r} 28 \overline{) 12} \\ -56 \\ \hline 28 \\ -28 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 35 \overline{) 12} \\ -70 \\ \hline 35 \\ -35 \\ \hline 0 \end{array}$$

$$42 \overline{) 12}$$

$$\begin{array}{r} 42 \overline{) 56} \\ -84 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 63 \overline{) 12} \\ -126 \\ \hline 63 \\ -63 \\ \hline 0 \end{array}$$

$$\frac{120}{9}$$

$$\frac{20}{42}$$

$$\frac{-42}{280}$$

$$x = \frac{1}{8}$$

$$\frac{17}{11}$$

$$\frac{11}{187}$$

$$\frac{20}{12}$$

$$\frac{107}{12}$$



$$\frac{190}{12}$$

$$\frac{-12}{70}$$

$$\frac{100}{12}$$

$$\frac{180}{12}$$

$$\frac{-12}{60}$$

$$\frac{1-1}{1}$$

$$\frac{1}{8}$$

$$\frac{64}{15}$$

$$\frac{107}{12}$$

$$\frac{102}{11}$$

$$\frac{14}{12}$$

$$x - \frac{1}{8} = 0$$

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

$$\frac{170}{12}$$

$$\frac{-12}{50}$$

$$\frac{187}{11}$$

$$\frac{-11}{77}$$

$$50 \quad 0,4$$

$$20 \quad 0,5$$

$$80 \quad 0,6$$

$$90 \quad 0,7$$

$$\frac{42}{120}$$

$$\frac{-12}{60}$$

$$\frac{36}{60}$$

$$\frac{90}{12}$$

$$\frac{-84}{60}$$

$$\frac{x^2-1}{8} = 0$$

$$\frac{160}{12}$$

$$12 = 2$$

$$\frac{22}{12}$$

$$\frac{-12}{10}$$

$$24$$

$$\frac{121}{12}$$

$$\frac{-12}{100}$$

$$\frac{50}{12}$$

$$\frac{-48}{20}$$

$$\frac{80}{12}$$

$$\frac{-72}{8}$$

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

$$\frac{150}{12}$$

$$\frac{-12}{30}$$

$$\frac{-24}{60}$$

$$\frac{120}{12}$$

$$\frac{-96}{20}$$

$$\frac{26}{12}$$

$$\frac{x}{12} = 4$$

$$\frac{x}{84}$$

$$\frac{107}{11}$$

$$\frac{-12}{24}$$

$$\frac{144}{12}$$

$$\frac{-12}{80}$$

$$x^2-1=x$$

$$\frac{120}{12}$$

$$\frac{100}{12}$$

$$\frac{28}{12}$$

$$\frac{49}{3}$$

$$\frac{27}{10}$$

$$\frac{70}{12}$$

$$\frac{-60}{100}$$

$$\frac{110}{12}$$

$$\frac{-108}{20}$$

$$\frac{-12}{-12}$$

$$\frac{130}{12}$$

$$\frac{-12}{10}$$

$$\frac{39}{12}$$

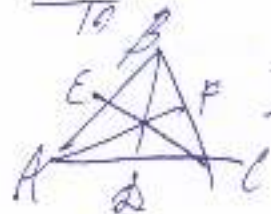
$$\frac{-24}{60}$$

$$\frac{169}{12}$$

$$\frac{-12}{49}$$

$$\frac{12}{84}$$

$$\frac{-96}{40}$$



$$\frac{462}{12}$$

$$\frac{-42}{42}$$

$$\frac{20}{12}$$

$$\frac{-12}{8}$$

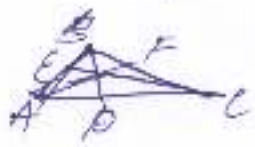
$$\frac{109}{12}$$

$$\frac{-96}{40}$$

$$\frac{107}{11}$$

$$\frac{21}{12}$$

$$\frac{-12}{98}$$



$$EC = \dots$$

$$AF = 2$$

$$\frac{x^2}{372} \quad AB = 3$$

$$EC = 7$$

$$AC = 7$$

$$BP = 3$$

$$\frac{402}{12}$$

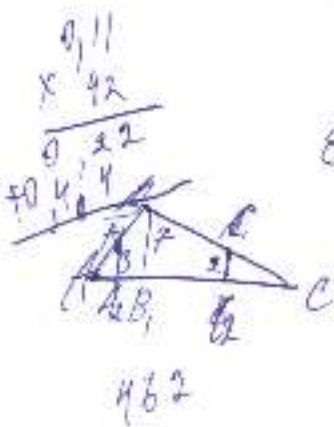
$$\frac{-372}{24}$$

$$BC = 9$$

$$\frac{12}{84}$$

$$\frac{104}{12}$$

$$\frac{42}{104}$$



$$\frac{1,11}{42}$$

$$\frac{2,22}{474}$$

$$\frac{4662}{4662}$$

$$\frac{104}{12}$$

$$\frac{-84}{200}$$

$$\frac{4662}{12}$$

$$\frac{-42}{1161}$$

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

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

$$1 - \frac{1}{2} = 0,5$$

$$0,5 - \frac{1}{2} = 0$$

$$2 - \frac{1}{0,5} = 0$$

$$-1 \quad 0,5$$

$$-1 - \frac{1}{0,5}$$

$$-0,5 + \frac{1}{1} = 0,5$$

$$-1 \quad 1$$

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

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

$$-1 \quad 2$$

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

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

4-

x =

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