

Системи једначина

$$1. \begin{cases} (x+2)^2 - (x+2)(x-3) - 3(y+5) = 0 \\ (2y-3)^2 - y(4y-3) + 4(3x-3\frac{3}{4}) = 0 \end{cases}$$

$$2. \begin{cases} y - x - \frac{5x-4}{2} = 3 - \frac{11y+17}{4} \\ x + \frac{9y+11}{4} - \frac{3y+4}{7} = 6 \end{cases}$$

$$3. \begin{cases} \frac{x+2y}{4} - \frac{x-2y}{4} = 1 - (x - \frac{7-2y}{3}) \\ 3x - 2y = 8 \end{cases}$$

$$4. \begin{cases} \frac{10-x}{15-x} = \frac{6y-7}{6y+3} \\ \frac{2x+2}{2y-3} = \frac{1}{3} \end{cases}$$

$$5. \frac{x+2y}{2x+y} = \frac{6-y}{3x-2} = \frac{5}{7}.$$

$$6. (2x-3) : (y+3) : (x-y+1) = 5 : 6 : 2.$$

$$7. \begin{cases} \frac{14}{x} + \frac{24}{y} = 10 \\ \frac{7}{x} - \frac{18}{y} = -5 \end{cases}$$

$$8. \begin{cases} \frac{5}{3x} + \frac{2}{5y} = 7 \\ \frac{7}{6x} - \frac{1}{10y} = 3 \end{cases}$$

$$9. \begin{cases} \frac{9}{4x-3y-19} + 3x - 5y - 4 = 10 \\ \frac{9}{4x-3y-19} + 9x - 15y - 12 = 24 \end{cases}$$

$$10. \begin{cases} 4y + 9x = 5xy \\ 9x - 2y = 2xy \end{cases}$$

$$11. \begin{cases} \frac{xy}{2x-y} = \frac{10}{19} \\ \frac{xy}{x+2y} = \frac{5}{6} \end{cases}$$

$$12. \begin{cases} 5\frac{6x+5}{x-1} - 9\frac{2x+13y}{4y} = 50 \\ 3\frac{6x+5}{x-1} + 7\frac{2x+13}{4y} = 154 \end{cases}$$

$$13. \begin{cases} \frac{x}{m+n} + \frac{y}{m-n} = 2m \\ \frac{x-y}{mn} = 4 \end{cases}$$

$$14. \begin{cases} \frac{2n}{x+ny} - \frac{1}{x-ny} = 1 \\ \frac{10n}{x+ny} + \frac{3}{x-ny} = 1 \end{cases}$$

$$15. \begin{cases} \frac{x}{a-b} - \frac{y}{a+b} = 2ab \\ \frac{x}{a^2+ab+b^2} + \frac{y}{a^2-ab+b^2} = 2a \end{cases}$$

$$16. \begin{cases} \frac{a}{x+y} + \frac{b}{x-y} = 1 \\ \frac{a^2}{x+y} - \frac{b^2}{x-y} = \frac{a-b}{2} \end{cases}$$

$$17. \begin{cases} \frac{x+y}{a^2+b^2} = \frac{x-y}{2ab} \\ \frac{x}{a+b} + \frac{y}{a-b} = 2a \end{cases}$$

$$18. \begin{cases} \frac{b}{x-a^2} - \frac{a}{y+b^2} = \frac{a-b}{ab} \\ \frac{b^2}{x-a^2} + \frac{a^2}{y+b^2} = 2 \end{cases}$$

$$19. \begin{cases} |x+1| + |y-1| = 5 \\ |x+1| = 4y-4 \end{cases}$$

$$20. \begin{cases} |x-1| + |y-5| = 1 \\ y = 5 + |x-1| \end{cases}$$

$$21. \begin{cases} 2x - 3|y| = 1 \\ |x| + 2y = 4 \end{cases}$$

$$22. \begin{cases} x - y + z + u = 0 \\ 3x + 2y - z = -4 \\ 2x - 3y = -2 \\ 4x = -4 \end{cases}$$

$$23. \begin{cases} 2x + 3y + z = 7 \\ -3x + y - 4z = -10 \\ 5x + 4y - 2z = 5 \end{cases}$$

$$24. \begin{cases} \frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 9 \\ \frac{1}{x} + \frac{1}{y} + \frac{1}{t} = 11 \\ \frac{1}{x} + \frac{1}{z} + \frac{1}{t} = 13 \\ \frac{1}{y} + \frac{1}{z} + \frac{1}{t} = 15 \end{cases}$$

$$25. \begin{cases} x + y = a \\ y + z = b \\ z + x = c \end{cases}$$

$$26. \begin{cases} \frac{xy}{ay + bx} = \frac{1}{c} \\ \frac{yz}{bz + cy} = \frac{1}{a} \\ \frac{zx}{az + cx} = \frac{1}{b} \end{cases}$$

$$27. \begin{cases} \frac{x+2}{y-3} - \frac{x+5}{y+1} = \frac{3}{(y+1)(y-3)} \\ \frac{2x+y}{15-8x-4y} = \frac{4x-y}{5-16x+4y} \end{cases}$$