

פתור את מערכות המשוואות הבאות:

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| $\frac{x}{4} - \frac{y}{2} = 1$ $\frac{x}{5} - \frac{y}{3} = 1$ | $\begin{cases} x + 3y = 34 \\ 5x - y = 10 \end{cases}$ |
| $\frac{x+y}{2} - \frac{2x+y}{5} = 0$ $\frac{x}{6} - \frac{y+2}{2} = 1$ | $2x - y = 7.5$ $\begin{cases} \frac{x}{2} = \frac{x-y}{3} \end{cases}$ |
| $\frac{1}{y} + \frac{9}{x} = 22$ $\frac{9}{y} - \frac{1}{x} = 34$ | $7x - 2y = 15$ $\begin{cases} \frac{2x+3y}{5} - \frac{x}{3} = 2 \end{cases}$ |
| $x - \frac{1}{y} = 1$ $x + \frac{3}{y} = 5$ | $\frac{10x+y}{x-y} = 12 + \frac{6y}{x-y}$ $x + y = 9$ |
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$$\left(\frac{-13}{4}, \frac{-49}{8}\right), (2,7) \quad \begin{cases} y = 2x^2 + 5x - 11 \\ 2y = 5x + 4 \end{cases} \cdot 2 \quad (1,-2), (5,2) \quad \begin{cases} x^2 - 6y = 13 \\ y = x - 3 \end{cases} \cdot 1$$

$$(8,6), \left(-\frac{1}{2}, \frac{1}{3}\right) \quad \begin{cases} \frac{4}{x} + \frac{3}{y} = 1 \\ 3y - 2x = 2 \end{cases} \cdot 4 \quad (35,-0.5), (-5,8) \quad \begin{cases} y^2 - 2x^2 + xy = -26 \\ x + y = 3 \end{cases} \cdot 3$$

$$(2.5,2) \quad \begin{cases} \frac{y-3}{x-3} = \frac{2x+1}{y+1} \\ y - 2x + 3 = 0 \end{cases} \cdot 6 \quad (-100,-4), (80,5) \quad \begin{cases} xy = 400 \\ (x+20)(y-1) = 400 \end{cases} \cdot 5$$

$$(10,-2), (-2,10) \quad \begin{cases} x^2 + y^2 + xy = 84 \\ xy = -20 \end{cases} \cdot 8^* \quad (3,5), (3,-5) \quad \begin{cases} 3x^2 - y^2 = 2 \\ x^2 + 2y^2 = 59 \end{cases} \cdot 7^*$$