

P 5 2 2章の基本のたしかめ

1. $(x, y) = (5, \square)$

$$x + 2y = 9$$

$$x = 5 \text{ を代入すると } 5 + 2y = 9 \quad 2y = 4 \quad y = 2$$

2. アからエを解いてみる。

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$$\begin{array}{l} \left\{ \begin{array}{l} x + y = 6 \\ 2x + y = 10 \end{array} \right. \\ -) \hline -x = -4 \\ x = 4 \\ y = 2 \\ (x, y) = (4, 2) \end{array}$$

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$$\begin{array}{l} \left\{ \begin{array}{l} x + 3y = -2 \\ x - y = 2 \end{array} \right. \\ -) \hline 4y = -4 \\ y = -1 \\ x + 1 = 2 \\ x = 1 \\ (x, y) = (1, -1) \end{array}$$

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$$\begin{array}{l} \left\{ \begin{array}{l} x = 2y \\ y - x = -2 \end{array} \right. \\ y - 2y = -2 \\ -y = -2 \\ y = 2 \\ x = 4 \\ (x, y) = (4, 2) \end{array}$$

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$$\begin{array}{l} \left\{ \begin{array}{l} x + 2y = 10 \\ y = x + 2 \end{array} \right. \\ x + 2(x + 2) = 10 \\ x + 2x + 4 = 10 \\ 3x = 6 \quad x = 2 \\ y = 4 \\ (x, y) = (2, 4) \end{array}$$

3.

$$(1) \begin{array}{l} \left\{ \begin{array}{l} x + 4y = 16 \\ x + y = 13 \end{array} \right. \\ -) \hline 3y = 3 \\ y = 1 \\ x = 12 \\ (x, y) = (12, 1) \end{array}$$

$$(2) \begin{array}{l} \left\{ \begin{array}{l} 5x - y = 11 \\ 3x + 2y = 4 \end{array} \right. \\ 10x - 2y = 22 \\ +) \hline 13x = 26 \quad x = 2 \\ 6 + 2y = 4 \\ 2y = -2 \quad y = -1 \\ (x, y) = (2, -1) \end{array}$$

4.

$$(1) \begin{cases} y = 2x \\ x + y = 12 \end{cases}$$

$$x + 2x = 12$$

$$3x = 12 \quad x = 4$$

$$y = 8$$

$$(x, y) = (4, 8)$$

$$(2) \begin{cases} 2x - y = 6 \\ x = y - 3 \end{cases}$$

$$2(y - 3) - y = 6$$

$$2y - 6 - y = 6$$

$$y = 12$$

$$x = 12 - 3 = 9$$

$$(x, y) = (9, 12)$$

5.

$$(1) \begin{cases} x + 2(y - 1) = 3 \\ x - 3y = 0 \end{cases}$$

$$x + 2y - 2 = 3$$

$$x + 2y = 5$$

$$\begin{array}{r} x - 3y = 0 \\ -) \quad \quad \quad \\ \hline 5y = 5 \end{array}$$

$$y = 1$$

$$x + 2 = 5$$

$$x = 3$$

$$(x, y) = (3, 1)$$

$$(2) \begin{cases} x + y = 4 \\ x + 3y = 1 \end{cases}$$

$$\begin{array}{r} x + y = 4 \\ 4x + 3y = 1 \\ -) \quad \quad \quad \\ \hline 3x + 3y = 3 \end{array}$$

$$x = -2$$

$$-2 + y = 1$$

$$y = 3$$

$$(x, y) = (-2, 3)$$

6. リンゴ 100円 x個

もも 150円 y個

$$\begin{cases} x + y = 10 \\ 100x + 150y = 1200 \end{cases}$$

$$100x + 100y = 1000$$

$$\begin{array}{r} 100x + 150y = 1200 \\ -) \quad \quad \quad \\ \hline 50y = 200 \end{array}$$

$$y = 4$$

$$x = 6 \quad \text{リンゴ} 6 \text{個}$$

もも 4個