

等式の性質を使って次の式を完成させて。

$x$  の値を求めなさい。(ただし2つの式の  $y$  の値は同じです。)

$$\begin{array}{r} 2x + y = 13 \\ -) \quad y = 3 \\ \hline 2x \quad = 10 \\ x \quad = 5 \end{array}$$

$$\begin{array}{r} 2x - y = 7 \\ +) \quad y = 3 \\ \hline 2x \quad = 10 \\ x \quad = 5 \end{array}$$

$$\begin{array}{r} 3x + y = 18 \\ -) \quad y = 3 \\ \hline 3x \quad = 15 \\ x \quad = 5 \end{array}$$

$$\begin{array}{r} 3x - y = 12 \\ +) \quad y = 3 \\ \hline 3x \quad = 15 \\ x \quad = 5 \end{array}$$

$$\begin{array}{r} 5x + y = 23 \\ -) \quad y = 3 \\ \hline 5x \quad = 20 \\ x \quad = 4 \end{array}$$

$$\begin{array}{r} 5x - y = 22 \\ +) \quad y = 3 \\ \hline 5x \quad = 25 \\ x \quad = 5 \end{array}$$

次の式を計算しなさい。  
ただし2つの式の  
 $y$ の値は同じです。

$$\begin{array}{r} x + y = 8 \\ -) \quad y = 3 \\ \hline x \quad = 5 \end{array}$$

$$\begin{array}{r} x - y = 2 \\ +) \quad y = 3 \\ \hline x \quad = 5 \end{array}$$

$$\begin{array}{r} x + y = 9 \\ -) \quad y = 4 \\ \hline x \quad = 5 \end{array}$$

$$\begin{array}{r} x - y = 1 \\ +) \quad y = 4 \\ \hline x \quad = 5 \end{array}$$

下の考え方は  
左の式の計算の考え方を  
示しています。

$$\begin{array}{l} A = B \\ C = D \text{ならば} \\ A - C = B - D \end{array}$$

$$\begin{array}{l} A = B \\ C = D \text{ならば} \\ A + C = B + D \end{array}$$

$$\begin{array}{l} A = B \\ C = D \text{ならば} \\ A - C = B - D \end{array}$$

$$\begin{array}{l} A = B \\ C = D \text{ならば} \\ A + C = B + D \end{array}$$

$$\begin{cases} x + 3y = 220 \\ x + 2y = 170 \end{cases}$$


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$$y = 50$$

$$x + 50 \times 2 = 170$$

$$x = 50$$

$$\begin{cases} 2x + 3y = 290 \dots \textcircled{1} \\ x + 2y = 120 \dots \textcircled{2} \end{cases}$$


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$$\textcircled{2} \times 2 \quad 2x + 4y = 340$$

$$\textcircled{1} \quad 2x + 3y = 290 \quad (-)$$


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$$y = 50$$

$$x + 2 \times 50 = 120$$

$$x = 70$$

$$\begin{cases} x + 5y = 320 \\ x + 3y = 220 \end{cases}$$


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$$2y = 100$$

$$y = 50$$

$$x + 3 \times 50 = 220$$

$$x = 70$$

$$\begin{cases} 2x + 4y = 340 \dots \textcircled{1} \\ x + y = 120 \dots \textcircled{2} \end{cases}$$


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$$\textcircled{1} \quad 2x + 6y = 340$$

$$\textcircled{2} \times 2 \quad 2x + 2y = 240 \quad (-)$$


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$$2y = 100$$

$$y = 50 \dots \textcircled{3}$$

③を②に代入して  $x = 70$

$$\begin{cases} 2x + 5y = 390 \\ 2x + 3y = 290 \end{cases}$$


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$$2y = 100$$

$$y = 50$$

$y = 50$ を初めのどちらかに代入して

$$x = 70$$

$$\begin{cases} 4x + 3y = 430 \cdots \textcircled{1} \\ 6x + 5y = 670 \cdots \textcircled{2} \end{cases}$$

$x$ の項の係数を  
一致させる。

4と6の最小公倍数の  
12とする。

$$\textcircled{2} \times 2 \quad 12x + 10y = 1340$$

$$\textcircled{1} \times 3 \quad 12x + 9y = 1290 \quad (-)$$

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$$y = 50 \cdots \textcircled{3}$$

$y = 50 \cdots \textcircled{3}$ を、

①または②に代入して

$$x = 70$$

$$\begin{cases} 100x + 10y = 310 \\ x + y = 4 \end{cases}$$

$$\begin{cases} x + y = 4 \\ 10x + 5y = 35 \end{cases}$$

$$\begin{cases} 100x + 10y = 420 \\ x + y = 6 \end{cases}$$

$$\begin{cases} x + y = 6 \\ 10x + 5y = 50 \end{cases}$$

$$\begin{cases} 100x + 10y = 520 \\ x + y = 7 \end{cases}$$

$$\begin{cases} x + y = 7 \\ 10x + 5y = 60 \end{cases}$$

$$\begin{cases} 100x + 10y = 230 \\ x + y = 5 \end{cases}$$

$$\begin{cases} x + y = 5 \\ 10x + 5y = 40 \end{cases}$$

$$\begin{cases} a + b = 15 \\ 20a + 70b = 600 \end{cases}$$

$$\begin{cases} 3x + y = 25 \\ 4x + 2y = 50 \end{cases}$$

$$\begin{cases} x + y = 15 \\ 20x + 70y = 600 \end{cases}$$

$$\begin{cases} 3x + 2y = 40 \\ 2x + 3y = 35 \end{cases}$$

$$\begin{cases} 5a + 2b = 285 \\ 4a + 3b = 340 \end{cases}$$

$$\begin{cases} 5x + 2y = 285 \\ 4x + 3y = 340 \end{cases}$$

$$\begin{cases} 3x + 2y = 40 \\ 4x + 2y = 50 \end{cases}$$

$$\begin{cases} x + 3y = 2300 \\ 2x + y = 2100 \end{cases}$$