

## 代入法.2

名前

解答

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問 次の連立方程式を代入法で解け。

$$(1) \begin{cases} x + y = 11 \\ x - y = 7 \end{cases}$$

$y = 2$ を $x - y = 7$ に代入  
 $x - 2 = 7$   
 $x = 9$

$x + y = 11 \rightarrow x = 11 - y$   
 $x = 11 - y$ を $x - y = 7$ に代入  
 $11 - y - y = 7$   
 $-2y = -4$   
 $y = 2$

答え  $\begin{cases} x = 9 \\ y = 2 \end{cases}$

$$(2) \begin{cases} x + y = 3 \\ 2x - y = 12 \end{cases}$$

$y = -2$ を $x + y = 3$ に代入  
 $x - 2 = 3$   
 $x = 5$

$x + y = 3 \rightarrow x = 3 - y$   
 $x = 3 - y$ を $2x - y = 12$ に代入  
 $2(3 - y) - y = 12$   
 $6 - 3y = 12$   
 $-3y = 6$   
 $y = -2$

答え  $\begin{cases} x = 5 \\ y = -2 \end{cases}$

$$(3) \begin{cases} x + 10y = -6 \\ 2x - y = -5.7 \end{cases}$$

$y = -0.3$ を $2x - y = -5.7$ に代入  
 $2x - (-0.3) = -5.7$   
 $2x = -6$   
 $x = -3$

$x + 10y = -6 \rightarrow x = -6 - 10y$   
 $x = -6 - 10y$ を $2x - y = -5.7$ に代入  
 $2(-6 - 10y) - y = -5.7$   
 $-12 - 20y - y = -5.7$   
 $-21y = 6.3$   
 $y = -0.3$

答え  $\begin{cases} x = -3 \\ y = -0.3 \end{cases}$

$$(4) \begin{cases} x + y = 8 \\ 3x - 2y = -11 \end{cases}$$

$y = 7$ を $x + y = 8$ に代入  
 $x + 7 = 8$   
 $x = 1$

$x + y = 8 \rightarrow x = 8 - y$   
 $x = 8 - y$ を $3x - 2y = -11$ に代入  
 $3(8 - y) - 2y = -11$   
 $24 - 3y - 2y = -11$   
 $-5y = -35$   
 $y = 7$

答え  $\begin{cases} x = 1 \\ y = 7 \end{cases}$

