

**たすき掛けの方法**  $(2x^2 + 7x + 5) = (2x + 5)(x + 1)$

$x^2$ の係数と定数項をそれぞれ2つの数の積に分解する  
 $2 = 2 \times 1, 5 = 5 \times 1$   
 4つの数をたすきに掛ける。

たすきに掛けた数の和で  

$$\begin{array}{r} 2 \times 5 \quad 5 \quad 2 \times 1 \quad 1 \\ 1 \times 1 \quad 2 \quad 1 \times 5 \quad 10 \\ \hline \text{good!!} \quad 7 \quad \text{bad!!} \quad 11 \end{array}$$

!  $x$ の係数と同じものが答え。

1. 次の整式を展開せよ。  $x$ の係数に着目

(1)  $(3x + 1)(x + 2)$

(2)  $(3x - 1)(x - 2)$

(3)  $(3x - 1)(x + 2)$

(4)  $(3x + 1)(x - 2)$

2.  $q = a \times b$  となる2数の組をすべて求めよ。

(1)  $q = 2$

(2)  $q = 3$

(3)  $q = 5$

(4)  $q = -2$

a	b

a	b

a	b

a	b

3. 次の式をたすき掛けで因数分解しなさい。

(1)  $5x^2 + 7x + 2 = (5x \quad)(x \quad)$

$x^2$ の係数は  $5 \times 1$

定数は  $1 \times 2$

$$\begin{array}{r} (5x + 1)(x + 2) \\ 5 \quad 1 \\ 1 \times 2 \end{array}$$

$$\begin{array}{r} (5x + 2)(x + 1) \\ 5 \quad 2 \\ 1 \quad 1 \end{array}$$

(2)  $2x^2 - 7x + 5 = (2x \quad)(x \quad)$

$x^2$ の係数は  $2 \times 1$

定数は  $(-1) \times (-5)$

$$\begin{array}{r} (2x - 1)(x - 5) \\ 2 \quad -1 \\ 1 \times -5 \end{array}$$

$$\begin{array}{r} (2x - 5)(x - 1) \\ 2 \quad -5 \\ 1 \times -1 \end{array}$$

(3)  $3x^2 + x - 2 = (3x \quad)(x \quad)$

$x^2$ の係数は  $2 \times 1$

定数は  $(-1) \times 2, 1 \times (-2)$

$$\begin{array}{r} (3x - 1)(x + 2) \\ 3 \quad -1 \\ 1 \times 2 \end{array}$$

$$\begin{array}{r} (3x + 2)(x - 1) \\ 3 \quad 2 \\ 1 \times -1 \end{array}$$

$$\begin{array}{r} (3x + 1)(x - 2) \\ 3 \quad 1 \\ 1 \times -2 \end{array}$$

$$\begin{array}{r} (3x - 2)(x + 1) \\ 3 \quad -2 \\ 1 \quad 1 \end{array}$$

4. 次の式をたすき掛けで因数分解しなさい。

(1)  $6x^2 + 5x + 1 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(2)  $3x^2 + 2x - 1 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(3)  $4x^2 - 5x + 1 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(4)  $2x^2 - 5x + 2 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(5)  $6x^2 + x - 1 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(6)  $2x^2 - 5x - 3 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(7)  $6x^2 + xy - 2y^2 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$

(8)  $2x^2 + xy - 6y^2 =$

$$\begin{array}{r} \times \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ \hline \end{array}$$