

■ 次の式を因数分解しなさい。

①  $2x^2+3x-5$

$\times$	→	
$\times$	→	
2	-5	3

②  $3x^2+16x+5$

③  $2x^2-x-6$

④  $4x^2+15x-4$

⑤  $9x^2-21x+10$

⑥  $8x^2-30x+25$

⑦  $8x^2-10x+3$

⑧  $12x^2+17x-5$

⑨  $3x^2+19x+20$

⑩  $10x^2+19x+6$

⑪  $5x^2+16x+3$

⑫  $12x^2-7x-12$

■ 次の式を因数分解しなさい。

①  $2x^2+3x-5$

$$\begin{array}{r} 1 \quad -1 \rightarrow -2 \\ 2 \quad 5 \rightarrow 5 \\ \hline 2 \quad -5 \quad 3 \end{array} \quad \boxed{(x-1)(2x+5)}$$

②  $3x^2+16x+5$

$$\begin{array}{r} 1 \quad 5 \rightarrow 15 \\ 3 \quad 1 \rightarrow 1 \\ \hline 3 \quad 5 \quad 16 \end{array} \quad \boxed{(x+5)(3x+1)}$$

③  $2x^2-x-6$

$$\begin{array}{r} 1 \quad -2 \rightarrow -4 \\ 2 \quad 3 \rightarrow 3 \\ \hline 2 \quad -6 \quad -1 \end{array} \quad \boxed{(x-2)(2x+3)}$$

④  $4x^2+15x-4$

$$\begin{array}{r} 1 \quad 4 \rightarrow 16 \\ 4 \quad -1 \rightarrow -1 \\ \hline 4 \quad -4 \quad 15 \end{array} \quad \boxed{(x+4)(4x-1)}$$

⑤  $9x^2-21x+10$

$$\begin{array}{r} 3 \quad -5 \rightarrow -15 \\ 3 \quad -2 \rightarrow -6 \\ \hline 9 \quad 10 \quad -21 \end{array} \quad \boxed{(3x-5)(3x-2)}$$

⑥  $8x^2-30x+25$

$$\begin{array}{r} 2 \quad -5 \rightarrow -20 \\ 4 \quad -5 \rightarrow -10 \\ \hline 8 \quad 25 \quad -30 \end{array} \quad \boxed{(2x-5)(4x-5)}$$

⑦  $8x^2-10x+3$

$$\begin{array}{r} 4 \quad -3 \rightarrow -6 \\ 2 \quad -1 \rightarrow -4 \\ \hline 8 \quad 3 \quad -10 \end{array} \quad \boxed{(4x-3)(2x-1)}$$

⑧  $12x^2+17x-5$

$$\begin{array}{r} 4 \quad -1 \rightarrow -3 \\ 3 \quad 5 \rightarrow 20 \\ \hline 12 \quad -5 \quad 17 \end{array} \quad \boxed{(4x-1)(3x+5)}$$

⑨  $3x^2+19x+20$

$$\begin{array}{r} 1 \quad 5 \rightarrow 15 \\ 3 \quad 4 \rightarrow 4 \\ \hline 3 \quad 20 \quad 19 \end{array} \quad \boxed{(x+5)(3x+4)}$$

⑩  $10x^2+19x+6$

$$\begin{array}{r} 2 \quad 3 \rightarrow 15 \\ 5 \quad 2 \rightarrow 4 \\ \hline 10 \quad 6 \quad 19 \end{array} \quad \boxed{(2x+3)(5x+2)}$$

⑪  $5x^2+16x+3$

$$\begin{array}{r} 1 \quad 3 \rightarrow 15 \\ 5 \quad 1 \rightarrow 1 \\ \hline 5 \quad 3 \quad 16 \end{array} \quad \boxed{(x+3)(5x+1)}$$

⑫  $12x^2-7x-12$

$$\begin{array}{r} 3 \quad -4 \rightarrow -16 \\ 4 \quad 3 \rightarrow 9 \\ \hline 12 \quad -12 \quad -7 \end{array} \quad \boxed{(3x-4)(4x+3)}$$