

■ 次の式を因数分解しなさい。

① $12x^2+29x+15$

\times	\rightarrow	
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12	15	29

② $2x^2-7x+5$

③ $4x^2-13x+3$

④ $4x^2+17x-15$

⑤ $2x^2-x-1$

⑥ $3x^2+2x-8$

⑦ $4x^2-11x-20$

⑧ $10x^2+23x-5$

⑨ $15x^2+19x-10$

⑩ $9x^2-18x+8$

⑪ $4x^2+4x-3$

⑫ $3x^2+16x+5$

■ 次の式を因数分解しなさい。

① $12x^2+29x+15$

$$\begin{array}{r} 4 \quad 3 \rightarrow 9 \\ \times \\ 3 \quad 5 \rightarrow 20 \\ \hline 12 \quad 15 \quad 29 \end{array} \quad (4x+3)(3x+5)$$

② $2x^2-7x+5$

$$\begin{array}{r} 1 \quad -1 \rightarrow -2 \\ \times \\ 2 \quad -5 \rightarrow -5 \\ \hline 2 \quad 5 \quad -7 \end{array} \quad (x-1)(2x-5)$$

③ $4x^2-13x+3$

$$\begin{array}{r} 1 \quad -3 \rightarrow -12 \\ \times \\ 4 \quad -1 \rightarrow -4 \\ \hline 4 \quad 3 \quad -13 \end{array} \quad (x-3)(4x-1)$$

④ $4x^2+17x-15$

$$\begin{array}{r} 1 \quad 5 \rightarrow 20 \\ \times \\ 4 \quad -3 \rightarrow -12 \\ \hline 4 \quad -15 \quad 17 \end{array} \quad (x+5)(4x-3)$$

⑤ $2x^2-x-1$

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

⑥ $3x^2+2x-8$

$$\begin{array}{r} 1 \quad 2 \rightarrow 6 \\ \times \\ 3 \quad -4 \rightarrow -12 \\ \hline 3 \quad -8 \quad 2 \end{array} \quad (x+2)(3x-4)$$

⑦ $4x^2-11x-20$

$$\begin{array}{r} 1 \quad -4 \rightarrow -16 \\ \times \\ 4 \quad 5 \rightarrow 20 \\ \hline 4 \quad -20 \quad -11 \end{array} \quad (x-4)(4x+5)$$

⑧ $10x^2+23x-5$

$$\begin{array}{r} 2 \quad 5 \rightarrow 25 \\ \times \\ 5 \quad -1 \rightarrow -5 \\ \hline 10 \quad -5 \quad 23 \end{array} \quad (2x+5)(5x-1)$$

⑨ $15x^2+19x-10$

$$\begin{array}{r} 3 \quad 5 \rightarrow 25 \\ \times \\ 5 \quad -2 \rightarrow -10 \\ \hline 15 \quad -10 \quad 19 \end{array} \quad (3x+5)(5x-2)$$

⑩ $9x^2-18x+8$

$$\begin{array}{r} 3 \quad -4 \rightarrow -12 \\ \times \\ 3 \quad -2 \rightarrow -6 \\ \hline 9 \quad 8 \quad -18 \end{array} \quad (3x-4)(3x-2)$$

⑪ $4x^2+4x-3$

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

⑫ $3x^2+16x+5$

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