

■ 次の式を因数分解しなさい。

① $2x^2+11x+12$

\times	→	
2	12	11

② $5x^2+27x+10$

③ $8x^2-6x+1$

④ $3x^2+4x-4$

⑤ $4x^2-13x-12$

⑥ $3x^2+8x-3$

⑦ $6x^2+17x+12$

⑧ $8x^2+30x+25$

⑨ $8x^2-2x-3$

⑩ $5x^2+24x-5$

⑪ $9x^2-3x-20$

⑫ $12x^2+11x-5$

■ 次の式を因数分解しなさい。

① $2x^2+11x+12$

$$\begin{array}{r} 1 \quad \times \quad 4 \rightarrow 8 \\ 2 \quad \times \quad 3 \rightarrow 3 \\ \hline 2 \quad 12 \quad 11 \end{array} \quad (x+4)(2x+3)$$

② $5x^2+27x+10$

$$\begin{array}{r} 1 \quad \times \quad 5 \rightarrow 25 \\ 5 \quad \times \quad 2 \rightarrow 2 \\ \hline 5 \quad 10 \quad 27 \end{array} \quad (x+5)(5x+2)$$

③ $8x^2-6x+1$

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

④ $3x^2+4x-4$

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

⑤ $4x^2-13x-12$

$$\begin{array}{r} 1 \quad \times \quad -4 \rightarrow -16 \\ 4 \quad \times \quad 3 \rightarrow 3 \\ \hline 4 \quad -12 \quad -13 \end{array} \quad (x-4)(4x+3)$$

⑥ $3x^2+8x-3$

$$\begin{array}{r} 1 \quad \times \quad 3 \rightarrow 9 \\ 3 \quad \times \quad -1 \rightarrow -1 \\ \hline 3 \quad -3 \quad 8 \end{array} \quad (x+3)(3x-1)$$

⑦ $6x^2+17x+12$

$$\begin{array}{r} 2 \quad \times \quad 3 \rightarrow 9 \\ 3 \quad \times \quad 4 \rightarrow 8 \\ \hline 6 \quad 12 \quad 17 \end{array} \quad (2x+3)(3x+4)$$

⑧ $8x^2+30x+25$

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

⑨ $8x^2-2x-3$

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

⑩ $5x^2+24x-5$

$$\begin{array}{r} 1 \quad \times \quad 5 \rightarrow 25 \\ 5 \quad \times \quad -1 \rightarrow -1 \\ \hline 5 \quad -5 \quad 24 \end{array} \quad (x+5)(5x-1)$$

⑪ $9x^2-3x-20$

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

⑫ $12x^2+11x-5$

$$\begin{array}{r} 3 \quad \times \quad -1 \rightarrow -4 \\ 4 \quad \times \quad 5 \rightarrow 15 \\ \hline 12 \quad -5 \quad 11 \end{array} \quad (3x-1)(4x+5)$$