

■ 次の式を因数分解しなさい。

①  $12x^2+13x+3$

$$\begin{array}{r} \times \quad \rightarrow \\ \hline 12 \quad 3 \quad 13 \end{array}$$

②  $5x^2+27x+10$

③  $3x^2-5x+2$

④  $3x^2-x-4$

⑤  $6x^2-7x+2$

⑥  $2x^2-x-6$

⑦  $6x^2+25x+25$

⑧  $5x^2-14x-3$

⑨  $12x^2+11x-5$

⑩  $4x^2+19x-5$

⑪  $3x^2-17x+20$

⑫  $8x^2+10x+3$

■ 次の式を因数分解しなさい。

①  $12x^2+13x+3$

$$\begin{array}{r} 4 \quad 3 \rightarrow 9 \\ 3 \quad 1 \rightarrow 4 \\ \hline 12 \quad 3 \quad 13 \end{array} \quad (4x+3)(3x+1)$$

②  $5x^2+27x+10$

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

③  $3x^2-5x+2$

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

④  $3x^2-x-4$

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

⑤  $6x^2-7x+2$

$$\begin{array}{r} 3 \quad -2 \rightarrow -4 \\ 2 \quad -1 \rightarrow -3 \\ \hline 6 \quad 2 \quad -7 \end{array} \quad (3x-2)(2x-1)$$

⑥  $2x^2-x-6$

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

⑦  $6x^2+25x+25$

$$\begin{array}{r} 3 \quad 5 \rightarrow 10 \\ 2 \quad 5 \rightarrow 15 \\ \hline 6 \quad 25 \quad 25 \end{array} \quad (3x+5)(2x+5)$$

⑧  $5x^2-14x-3$

$$\begin{array}{r} 1 \quad -3 \rightarrow -15 \\ 5 \quad 1 \rightarrow 5 \\ \hline 5 \quad -3 \quad -14 \end{array} \quad (x-3)(5x+1)$$

⑨  $12x^2+11x-5$

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

⑩  $4x^2+19x-5$

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

⑪  $3x^2-17x+20$

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

⑫  $8x^2+10x+3$

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