

■ 次の式を因数分解しなさい。

①  $12x^2+11x-15$

$$\begin{array}{r} \times \quad \rightarrow \\ \times \quad \rightarrow \\ \hline 12 \quad -15 \quad 11 \end{array} \quad \boxed{\phantom{000}}$$

②  $12x^2-11x+2$

③  $4x^2+4x-3$

④  $5x^2-7x+2$

⑤  $12x^2+x-20$

⑥  $4x^2-13x+3$

⑦  $4x^2-16x+15$

⑧  $12x^2-19x+5$

⑨  $3x^2+7x+2$

⑩  $12x^2-x-6$

⑪  $4x^2-8x-5$

⑫  $5x^2+4x-1$

■ 次の式を因数分解しなさい。

①  $12x^2+11x-15$

$$\begin{array}{r} 4 \quad -3 \rightarrow -9 \\ 3 \quad 5 \rightarrow 20 \\ \hline 12 \quad -15 \quad 11 \end{array} \quad (4x-3)(3x+5)$$

②  $12x^2-11x+2$

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

③  $4x^2+4x-3$

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

④  $5x^2-7x+2$

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

⑤  $12x^2+x-20$

$$\begin{array}{r} 4 \quad -5 \rightarrow -15 \\ 3 \quad 4 \rightarrow 16 \\ \hline 12 \quad -20 \quad 1 \end{array} \quad (4x-5)(3x+4)$$

⑥  $4x^2-13x+3$

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

⑦  $4x^2-16x+15$

$$\begin{array}{r} 2 \quad -5 \rightarrow -10 \\ 2 \quad -3 \rightarrow -6 \\ \hline 4 \quad 15 \quad -16 \end{array} \quad (2x-5)(2x-3)$$

⑧  $12x^2-19x+5$

$$\begin{array}{r} 3 \quad -1 \rightarrow -4 \\ 4 \quad -5 \rightarrow -15 \\ \hline 12 \quad 5 \quad -19 \end{array} \quad (3x-1)(4x-5)$$

⑨  $3x^2+7x+2$

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

⑩  $12x^2-x-6$

$$\begin{array}{r} 3 \quad 2 \rightarrow 8 \\ 4 \quad -3 \rightarrow -9 \\ \hline 12 \quad -6 \quad -1 \end{array} \quad (3x+2)(4x-3)$$

⑪  $4x^2-8x-5$

$$\begin{array}{r} 2 \quad 1 \rightarrow 2 \\ 2 \quad -5 \rightarrow -10 \\ \hline 4 \quad -5 \quad -8 \end{array} \quad (2x+1)(2x-5)$$

⑫  $5x^2+4x-1$

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