

次の式を因数分解しなさい。

$$\begin{array}{r} 1 \times 3 \\ 2 \times 1 \end{array}$$

(1)  $2x^2 + 7xy + 3y^2$

$$\underline{(x+3y)(2x+y)}$$

(2)  $3x^2 - 7xy - 6y^2$

$$\begin{array}{r} 1 \times -3 \rightarrow -9 \\ 3 \times 2 \rightarrow 6 \end{array}$$

$$\underline{(x-3y)(3x+2y)}$$

(3)  $6x^2 - 13xy + 5y^2$

$$\begin{array}{r} 2 \times -1 \rightarrow -2 \\ 3 \times -5 \rightarrow -15 \end{array}$$

$$\underline{(2x-y)(3x-5y)}$$

(4)  $6x^2 - 23x - 4$

$$\begin{array}{r} 1 \times -4 \rightarrow -4 \\ 6 \times 1 \rightarrow 6 \end{array}$$

$$\underline{(x-4)(6x+1)}$$

(5)  $6x^2 + 16x - 6$

$$\begin{array}{r} 1 \times 3 \rightarrow 3 \\ 3 \times -1 \rightarrow -3 \end{array}$$

$$= 2(3x^2 + 8x - 3)$$

$$= \underline{2(x+3)(3x-1)}$$