

2 小問集合. 以下の式を因数分解せよ.

(1)  $x^2 + 5x + 6$

(2)  $3x^2 + 11x + 6$

(3)  $6x^2 - 13x + 6$

(4)  $x^2 - 2y^2 - 2 - xy - x + 5y$

(5)  $x^3 - y^3$

(1)  $(x+2)(x+3)$

(2)

3	×	2	- 2
1		3	- 9
			11 ok

$$3x^2 + 11x + 6 = (3x+2)(x+3)$$

(3)

3	×	-2	- - 4
2		-3	- - 9
			-13 ok

$$6x^2 - 13x + 6 = (3x-2)(2x-3)$$

$$\begin{aligned}
 (4) \quad & x^2 - 2y^2 - 2 - xy - x + 5y \\
 &= x^2 - (1+y)x - 2y^2 + 5y - 2 \\
 &= x^2 - (1+y)x - (2y^2 - 5y + 2) \\
 &= x^2 - (1+y)x - (2y-1)(y-2) \\
 &= (x - (2y-1))(x + (y-2)) \\
 &= (x - 2y + 1)(x + y - 2)
 \end{aligned}$$

(5)  $x^3 - y^3$

$$= (x-y)(x^2 + xy + y^2)$$

因数分解の考え.

① 共通因数

② 簡単な公式

③ 7-2x+17

④ 複素文字のときは.

対"1つの文字に着目!!

⋮