

次の式を因数分解しよう！

$$(1) x^3 + 12x^2 + 29x + 18$$

$$(2) x^3 - 73x - 72$$

$$(3) x^3 - 2x^2 - 53x - 90$$

$$(4) x^3 + 4x^2 - 69x - 216$$

$$(5) x^3 + 9x^2 + 14x - 24$$

$$(6) x^3 - 7x^2 - 6x + 72$$

$$(7) x^3 - 3x^2 - 6x + 8$$

$$(8) x^3 - 43x + 42$$

$$(9) x^3 + 2x^2 - 40x + 64$$

$$(10) x^3 - 16x^2 + 75x - 108$$

## 【解答】

(1)  $(x + 1)(x + 2)(x + 9)$

(2)  $(x + 1)(x + 8)(x - 9)$

(3)  $(x + 2)(x + 5)(x - 9)$

(4)  $(x + 3)(x - 8)(x + 9)$

(5)  $(x - 1)(x + 4)(x + 6)$

(6)  $(x + 3)(x - 4)(x - 6)$

(7)  $(x - 1)(x + 2)(x - 4)$

(8)  $(x - 1)(x - 6)(x + 7)$

(9)  $(x - 2)(x - 4)(x + 8)$

(10)  $(x - 3)(x - 4)(x - 9)$