

次の式を因数分解しよう！

$$(1) x^3 - x^2 - 10x - 8$$

$$(2) x^3 + 7x^2 - 21x - 27$$

$$(3) x^3 + 6x^2 - 37x - 90$$

$$(4) x^3 + 10x^2 - 3x - 108$$

$$(5) x^3 + 10x^2 + 3x - 126$$

$$(6) x^3 - 4x^2 - 37x + 40$$

$$(7) x^3 + 6x^2 - 13x + 24$$

$$(8) x^3 - x^2 - 58x + 112$$

$$(9) x^3 - 19x^2 + 111x - 189$$

$$(10) x^3 + 6x^2 + 11x + 6$$

## 【解答】

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

(2)  $(x + 1)(x - 3)(x + 9)$

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

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

(5)  $(x - 3)(x + 6)(x + 7)$

(6)  $(x - 1)(x + 5)(x - 8)$

(7)  $(x - 1)(x - 3)(x + 8)$

(8)  $(x - 2)(x - 7)(x + 8)$

(9)  $(x - 3)(x - 7)(x - 9)$

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