

次の式を因数分解しよう！

$$(1) x^3 + 8x^2 + 17x + 10$$

$$(2) x^3 - 3x^2 - 34x - 48$$

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

$$(4) x^3 + 8x^2 + 5x - 14$$

$$(5) x^3 + 8x^2 + 9x - 18$$

$$(6) x^3 - 9x^2 - x + 105$$

$$(7) x^3 - 12x^2 + 9x + 162$$

$$(8) x^3 - 73x + 72$$

$$(9) x^3 + 3x^2 - 34x + 48$$

$$(10) x^3 - 16x^2 + 81x - 126$$

## 【解答】

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

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

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

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

(5)  $(x - 1)(x + 3)(x + 6)$

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

(7)  $(x + 3)(x - 6)(x - 9)$

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

(9)  $(x - 2)(x - 3)(x + 8)$

(10)  $(x - 3)(x - 6)(x - 7)$