

次の式を因数分解しよう！

$$(1) x^3 + 11x^2 + 36x + 36$$

$$(2) x^3 - 2x^2 - 13x - 10$$

$$(3) x^3 + 4x^2 - 7x - 10$$

$$(4) x^3 + 6x^2 - 24x - 64$$

$$(5) x^3 + 11x^2 + 10x - 72$$

$$(6) x^3 - 8x^2 + 9x + 18$$

$$(7) x^3 - 2x^2 - 55x + 56$$

$$(8) x^3 - 6x^2 - 45x + 162$$

$$(9) x^3 - 2x^2 - 59x + 168$$

$$(10) x^3 - 13x^2 + 46x - 48$$

【解答】

(1) $(x + 2)(x + 3)(x + 6)$

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

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

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

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

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

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

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

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

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