



次の式を因数分解しなさい。

(1)
$$(x^2 + x + 1)(x^2 + x + 3) - 15$$

$$J_{37}$$
 $(x+2)(x-1)(x^2+x+6)$

(2)
$$x(x+1)(x+2)(x+3) - 8$$

$$52 = (2^{2} + 3x)(x^{2} + 3x + 2) - 8$$

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

$$= x^{2} + 2x - 8$$

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

$$= (x^{2} + 3x + 4)(x^{2} + 3x - 2)$$

(3)
$$(x-1)(x-3)(x-5)(x-7)+15$$

$$55 = (x^2 - 8x + 7)(x^2 - 8x + 15) + 15$$

$$= (x + 7)(x + 15) + 15$$

$$= x^2 + 22x + 120$$

$$= (x + 10)(x + 12)$$

$$= (x^2 - 8x + 10)(x^2 - 8x + 12)$$

$$= (x^2 - 8x + 10)(x^2 - 8x + 12)$$

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$$= (x^2 - 8x + 10)(x^2 - 8x + 12)$$

7,