式の展開 3項・工夫（20問）　版J

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

(1) $(x + 4)(x - 4)(x^2 + 16) =$

(2) $(x + 3)(x - 3)(x^2 + 9) =$

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

(4) $(x + 2y - 1)^2 =$

(5) $(x + y - 6)(x + y - 7) =$

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

(7) $(x + y + 4)(x + y - 6) =$

(8) $(x - 3y - 3)^2 =$

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

(10) $(x + y - 2)(x + y + 7) =$

(11) $(x + y - 3)(x + y - 6) =$

(12) $(x^2 + x + 5)(x^2 - x + 5) =$

(13) $(x + 3y + 1)^2 =$

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

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

(16) $(x + y - 1)(x + y - 2) =$

(17) $(x - 3y - 2)^2 =$

(18) $(x + 2y - 3)^2 =$

(19) $(x - 3)(x + 3)(x - 4) =$

(20) $(x + 1)(x + 3)(x + 4) =$

式の展開 3項・工夫（20問）　版Jの答え

※ 置き換えの問題は、x + y を1つの文字と見て展開したかを見てください。

(1) $(x + 4)(x - 4)(x^2 + 16)$
$= x^4 - 256$

(2) $(x + 3)(x - 3)(x^2 + 9)$
$= x^4 - 81$

(3) $(x^2 + 4x - 4)(x^2 - 4x - 4)$
$= x^4 - 24x^2 + 16$

(4) $(x + 2y - 1)^2$
$= x^2 + 4xy + 4y^2 - 2x - 4y + 1$

(5) $(x + y - 6)(x + y - 7)$
$= x^2 + 2xy + y^2 - 13x - 13y + 42$

(6) $(x + 2)(x - 2)(x^2 + 4)$
$= x^4 - 16$

(7) $(x + y + 4)(x + y - 6)$
$= x^2 + 2xy + y^2 - 2x - 2y - 24$

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

(9) $(x^2 + x - 4)(x^2 - x - 4)$
$= x^4 - 9x^2 + 16$

(10) $(x + y - 2)(x + y + 7)$
$= x^2 + 2xy + y^2 + 5x + 5y - 14$

(11) $(x + y - 3)(x + y - 6)$
$= x^2 + 2xy + y^2 - 9x - 9y + 18$

(12) $(x^2 + x + 5)(x^2 - x + 5)$
$= x^4 + 9x^2 + 25$

(13) $(x + 3y + 1)^2$
$= x^2 + 6xy + 9y^2 + 2x + 6y + 1$

(14) $(x - 1)(x - 2)(x + 5)$
$= x^3 + 2x^2 - 13x + 10$

(15) $(x - 1)(x + 2)(x - 4)$
$= x^3 - 3x^2 - 6x + 8$

(16) $(x + y - 1)(x + y - 2)$
$= x^2 + 2xy + y^2 - 3x - 3y + 2$

(17) $(x - 3y - 2)^2$
$= x^2 - 6xy + 9y^2 - 4x + 12y + 4$

(18) $(x + 2y - 3)^2$
$= x^2 + 4xy + 4y^2 - 6x - 12y + 9$

(19) $(x - 3)(x + 3)(x - 4)$
$= x^3 - 4x^2 - 9x + 36$

(20) $(x + 1)(x + 3)(x + 4)$
$= x^3 + 8x^2 + 19x + 12$