式の展開 3項・工夫（20問）　版E

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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

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

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

(4) $(x + y + 5)(x + y + 2)$ =

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

(6) $(x - 1)(x + 3)(x - 4)$ =

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

(8) $(x + 4)(x + 5)(x - 5)$ =

(9) $(x^2 + x - 1)(x^2 - x - 1)$ =

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

(11) $(x - 2y - 5)^2$ =

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

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

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

(15) $(x - 1)(x - 3)(x + 4)$ =

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

(17) $(x + y + 1)(x + y - 1)$ =

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

(19) $(x + y + 4)(x + y + 5)$ =

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

式の展開 3項・工夫（20問）　版E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) $(x + y + 2)(x + y - 1)$
$= x^2 + 2xy + y^2 + x + y - 2$

(2) $(x^2 + 2x - 3)(x^2 - 2x - 3)$
$= x^4 - 10x^2 + 9$

(3) $(x + y - 1)(x + y - 6)$
$= x^2 + 2xy + y^2 - 7x - 7y + 6$

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

(5) $(x^2 + 3x - 2)(x^2 - 3x - 2)$
$= x^4 - 13x^2 + 4$

(6) $(x - 1)(x + 3)(x - 4)$
$= x^3 - 2x^2 - 11x + 12$

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

(8) $(x + 4)(x + 5)(x - 5)$
$= x^3 + 4x^2 - 25x - 100$

(9) $(x^2 + x - 1)(x^2 - x - 1)$
$= x^4 - 3x^2 + 1$

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

(11) $(x - 2y - 5)^2$
$= x^2 - 4xy + 4y^2 - 10x + 20y + 25$

(12) $(x - 2y + 2)^2$
$= x^2 - 4xy + 4y^2 + 4x - 8y + 4$

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

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

(15) $(x - 1)(x - 3)(x + 4)$
$= x^3 - 13x + 12$

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

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

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

(19) $(x + y + 4)(x + y + 5)$
$= x^2 + 2xy + y^2 + 9x + 9y + 20$

(20) $(x + 2)(x - 3)(x - 4)$
$= x^3 - 5x^2 - 2x + 24$