式の展開 3項・工夫（20問）　版G

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

(1) $(x + y + 4)(x + y + 6)$ =

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

(3) $(x + y - 5)(x + y - 4)$ =

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

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

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

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

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

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

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

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

(12) $(x + 3y + 2)^2$ =

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

(14) $(x + y + 2)(x + y + 7)$ =

(15) $(x + 3y + 3)^2$ =

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

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

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

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

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

式の展開 3項・工夫（20問）　版G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) $(x + y + 4)(x + y + 6)$
$= x^2 + 2xy + y^2 + 10x + 10y + 24$

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

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

(4) $(x^2 + 4x - 3)(x^2 - 4x - 3)$
$= x^4 - 22x^2 + 9$

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

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

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

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

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

(10) $(x^2 + 4x + 4)(x^2 - 4x + 4)$
$= x^4 - 8x^2 + 16$

(11) $(x - 1)(x + 2)(x + 5)$
$= x^3 + 6x^2 + 3x - 10$

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

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

(14) $(x + y + 2)(x + y + 7)$
$= x^2 + 2xy + y^2 + 9x + 9y + 14$

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

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

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

(18) $(x - 1)(x - 2)(x + 4)$
$= x^3 + x^2 - 10x + 8$

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

(20) $(x + y - 4)(x + y - 7)$
$= x^2 + 2xy + y^2 - 11x - 11y + 28$