式の展開 3項・工夫（20問）　版B

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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

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

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

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

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

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

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

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

(9) $(x + y - 5)(x + y + 1) =$

(10) $(x + 5)(x - 5)(x^2 + 25) =$

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

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

(13) $(x + y - 5)(x + y + 5) =$

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

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

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

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

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

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

(20) $(x + 1)(x + 2)(x + 3) =$

式の展開 3項・工夫（20問）　版B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) $(x + 1)(x - 3)(x + 5)$
$= x^3 + 3x^2 - 13x - 15$

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

(3) $(x + 2)(x + 4)(x + 5)$
$= x^3 + 11x^2 + 38x + 40$

(4) $(x + y - 4)(x + y - 2)$
$= x^2 + 2xy + y^2 - 6x - 6y + 8$

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

(6) $(x - y - 5)^2$
$= x^2 - 2xy + y^2 - 10x + 10y + 25$

(7) $(x - 3)(x + 4)(x - 5)$
$= x^3 - 4x^2 - 17x + 60$

(8) $(x^2 + 2x - 4)(x^2 - 2x - 4)$
$= x^4 - 12x^2 + 16$

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

(10) $(x + 5)(x - 5)(x^2 + 25)$
$= x^4 - 625$

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

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

(13) $(x + y - 5)(x + y + 5)$
$= x^2 + 2xy + y^2 - 25$

(14) $(x + y + 2)^2$
$= x^2 + 2xy + y^2 + 4x + 4y + 4$

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

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

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

(18) $(x + y - 3)(x + y - 1)$
$= x^2 + 2xy + y^2 - 4x - 4y + 3$

(19) $(x + y - 6)(x + y + 1)$
$= x^2 + 2xy + y^2 - 5x - 5y - 6$

(20) $(x + 1)(x + 2)(x + 3)$
$= x^3 + 6x^2 + 11x + 6$