式の展開 3項・工夫（20問）　版H

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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

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

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

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

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

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

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

(8) $(x + y + 6)(x + y + 2)$ =

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

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

(11) $(x + 3y + 5)^2$ =

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

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

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

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

(16) $(x + y - 5)(x + y - 2)$ =

(17) $(x + 2)(x - 4)(x + 5)$ =

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

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

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

式の展開 3項・工夫（20問）　版H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) $(x + y + 4)^2$
$= x^2 + 2xy + y^2 + 8x + 8y + 16$

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

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

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

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

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

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

(8) $(x + y + 6)(x + y + 2)$
$= x^2 + 2xy + y^2 + 8x + 8y + 12$

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

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

(11) $(x + 3y + 5)^2$
$= x^2 + 6xy + 9y^2 + 10x + 30y + 25$

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

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

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

(15) $(x + 1)(x - 3)(x - 5)$
$= x^3 - 7x^2 + 7x + 15$

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

(17) $(x + 2)(x - 4)(x + 5)$
$= x^3 + 3x^2 - 18x - 40$

(18) $(x - 1)(x + 2)(x - 5)$
$= x^3 - 4x^2 - 7x + 10$

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

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

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