

解答

1. 式の展開 (レベル3・公式) 1

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|-----------------------|-----------------------|
| (1) $a^2 + 13a + 36$ | (2) $x^2 - 9x + 20$ |
| (3) $x^2 - 11x + 24$ | (4) $x^2 + 15x + 54$ |
| (5) $a^2 + 3a - 28$ | (6) $a^2 + a - 2$ |
| (7) $x^2 - 3x - 18$ | (8) $a^2 + 11a + 18$ |
| (9) $a^2 - 4a + 3$ | (10) $x^2 + x - 6$ |
| (11) $a^2 - a - 56$ | (12) $x^2 - 12x + 32$ |
| (13) $x^2 - 8x + 12$ | (14) $a^2 - 15a + 56$ |
| (15) $a^2 - 8a + 7$ | (16) $a^2 - a - 2$ |
| (17) $x^2 + 12x + 27$ | (18) $a^2 - 10a + 16$ |
| (19) $x^2 + 5x - 24$ | (20) $a^2 + 3a - 18$ |
| (21) $x^2 - 9x + 14$ | (22) $x^2 + 7x - 8$ |
| (23) $a^2 + 8a + 15$ | (24) $x^2 - 11x + 18$ |
| (25) $a^2 - 5a - 6$ | (26) $x^2 + 5x - 14$ |
| (27) $x^2 + 6x + 5$ | (28) $x^2 - 6x - 7$ |
| (29) $a^2 + 11a + 28$ | (30) $a^2 + 8a + 12$ |

3. 式の展開 (レベル3・公式) 3

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|------------------------|------------------------|
| (1) $-a^2 - 8a - 12$ | (2) $a^2 - a - 42$ |
| (3) $-a^2 + 6a + 27$ | (4) $-a^2 + 8a - 7$ |
| (5) $-a^2 + a + 6$ | (6) $-a^2 - 10a - 24$ |
| (7) $-a^2 + a + 72$ | (8) $x^2 - 9x + 14$ |
| (9) $-x^2 + 2x + 8$ | (10) $x^2 + 6x - 7$ |
| (11) $-a^2 + 10a - 16$ | (12) $a^2 + a - 30$ |
| (13) $-a^2 - a + 30$ | (14) $-a^2 - 8a - 15$ |
| (15) $x^2 - x - 6$ | (16) $-a^2 - 9a - 8$ |
| (17) $x^2 - 7x - 8$ | (18) $x^2 + 6x - 16$ |
| (19) $-x^2 - 3x + 18$ | (20) $-x^2 - 3x + 54$ |
| (21) $-a^2 + 15a - 54$ | (22) $-a^2 + 3a + 4$ |
| (23) $a^2 + 13a + 36$ | (24) $a^2 - 6a - 27$ |
| (25) $-x^2 + 16x - 63$ | (26) $-a^2 - 15a - 56$ |
| (27) $-x^2 - 3x + 40$ | (28) $x^2 - 4x + 3$ |
| (29) $-a^2 + 11a - 30$ | (30) $-x^2 + 9x - 18$ |

5. 式の展開 (レベル3・公式) 5

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|---------------------------|----------------------------|
| (1) $x^2 - 12xy + 35y^2$ | (2) $a^2 + 14ab + 45b^2$ |
| (3) $a^2 - 3ab - 40b^2$ | (4) $a^2 - 15ab + 54b^2$ |
| (5) $x^2 + 5xy - 24y^2$ | (6) $x^2 + 8xy - 9y^2$ |
| (7) $-a^2 - 7ab + 18b^2$ | (8) $-x^2 + 15xy - 56y^2$ |
| (9) $x^2 + xy - 56y^2$ | (10) $-a^2 + 9ab - 18b^2$ |
| (11) $-a^2 + 5ab - 6b^2$ | (12) $x^2 + 5xy - 14y^2$ |
| (13) $a^2 + 3ab - 54b^2$ | (14) $-x^2 + 11xy - 28y^2$ |
| (15) $-a^2 + 8ab - 15b^2$ | (16) $-x^2 - 2xy + 35y^2$ |
| (17) $-a^2 - 6ab - 5b^2$ | (18) $x^2 - 3xy - 28y^2$ |
| (19) $x^2 - 3xy - 10y^2$ | (20) $-a^2 - ab + 20b^2$ |
| (21) $x^2 + 2xy - 63y^2$ | (22) $-a^2 + 5ab + 6b^2$ |
| (23) $x^2 + 2xy - 3y^2$ | (24) $a^2 - 3ab - 4b^2$ |
| (25) $a^2 + ab - 30b^2$ | (26) $-x^2 + 3xy - 2y^2$ |
| (27) $x^2 + 2xy - 48y^2$ | (28) $-a^2 - ab + 42b^2$ |
| (29) $a^2 - 9ab + 14b^2$ | (30) $a^2 - 14ab + 48b^2$ |

2. 式の展開 (レベル3・公式) 2

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|-----------------------|-----------------------|
| (1) $x^2 - 6x - 16$ | (2) $a^2 + 4a + 3$ |
| (3) $a^2 - 4a - 12$ | (4) $a^2 + 3a - 28$ |
| (5) $x^2 - 11x + 30$ | (6) $a^2 + 15a + 54$ |
| (7) $a^2 - 3a - 10$ | (8) $a^2 + 14a + 45$ |
| (9) $a^2 - 2a - 15$ | (10) $a^2 + a - 56$ |
| (11) $a^2 + 11a + 28$ | (12) $x^2 - x - 30$ |
| (13) $x^2 + x - 12$ | (14) $x^2 + 9x + 20$ |
| (15) $a^2 - 3a + 2$ | (16) $a^2 - a - 72$ |
| (17) $x^2 + 8x + 15$ | (18) $a^2 - 10a + 9$ |
| (19) $a^2 + 15a + 56$ | (20) $x^2 + 2x - 48$ |
| (21) $x^2 - 7x + 10$ | (22) $a^2 + 11a + 28$ |
| (23) $x^2 + 11x + 18$ | (24) $a^2 + 7a - 18$ |
| (25) $x^2 + 3x - 54$ | (26) $x^2 - 2x - 63$ |
| (27) $a^2 - 8a + 12$ | (28) $a^2 - 3a + 2$ |
| (29) $x^2 + 4x - 12$ | (30) $x^2 + 16x + 63$ |

4. 式の展開 (レベル3・公式) 4

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|---------------------------|---------------------------|
| (1) $-x^2 + 13xy - 40y^2$ | (2) $x^2 + 15xy + 56y^2$ |
| (3) $-a^2 + 15ab - 54b^2$ | (4) $a^2 + 3ab - 40b^2$ |
| (5) $a^2 + 6ab + 5b^2$ | (6) $-x^2 + 7xy + 8y^2$ |
| (7) $x^2 - 2xy - 24y^2$ | (8) $-x^2 + 3xy + 4y^2$ |
| (9) $a^2 - ab - 56b^2$ | (10) $x^2 + 12xy + 27y^2$ |
| (11) $x^2 + 2xy - 35y^2$ | (12) $-a^2 + 6ab + 16b^2$ |
| (13) $x^2 + 4xy + 3y^2$ | (14) $-a^2 + 3ab + 18b^2$ |
| (15) $x^2 + 9xy + 8y^2$ | (16) $a^2 + 8ab + 12b^2$ |
| (17) $-x^2 - 10xy - 9y^2$ | (18) $a^2 + 11ab + 30b^2$ |
| (19) $-x^2 - 9xy - 18y^2$ | (20) $a^2 - 3ab - 40b^2$ |
| (21) $a^2 + 2ab - 48b^2$ | (22) $a^2 + 13ab + 42b^2$ |
| (23) $a^2 + 10ab + 21b^2$ | (24) $x^2 + xy - 42y^2$ |
| (25) $x^2 + 3xy - 10y^2$ | (26) $-x^2 + 2xy + 8y^2$ |
| (27) $x^2 - 7xy + 6y^2$ | (28) $x^2 - 8xy + 7y^2$ |
| (29) $-x^2 - xy + 56y^2$ | (30) $x^2 + 3xy + 2y^2$ |

6. 式の展開 (レベル3・公式) 6

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|----------------------------|----------------------------|
| (1) $-x^2 - 5xy + 14y^2$ | (2) $a^2 + 7ab - 8b^2$ |
| (3) $-a^2 - ab + 12b^2$ | (4) $a^2 - 8ab - 9b^2$ |
| (5) $x^2 + 7xy + 6y^2$ | (6) $-a^2 - 2ab + 15b^2$ |
| (7) $a^2 - 13ab + 42b^2$ | (8) $-a^2 + 14ab - 45b^2$ |
| (9) $-x^2 - 3xy + 18y^2$ | (10) $a^2 + 8ab + 7b^2$ |
| (11) $-a^2 + 2ab + 24b^2$ | (12) $-x^2 + xy + 2y^2$ |
| (13) $-x^2 - 7xy - 12y^2$ | (14) $x^2 - 9xy + 20y^2$ |
| (15) $a^2 + 5ab - 14b^2$ | (16) $a^2 + 8ab - 9b^2$ |
| (17) $-a^2 + 15ab - 54b^2$ | (18) $-x^2 - 11xy - 30y^2$ |
| (19) $-x^2 + 6xy - 5y^2$ | (20) $-x^2 - 6xy + 27y^2$ |
| (21) $x^2 - 2xy - 24y^2$ | (22) $a^2 + 6ab - 16b^2$ |
| (23) $-a^2 - 4ab + 45b^2$ | (24) $a^2 + 8ab + 12b^2$ |
| (25) $-x^2 + 12xy - 32y^2$ | (26) $-a^2 - 15ab - 56b^2$ |
| (27) $a^2 + 4ab - 12b^2$ | (28) $x^2 - xy - 56y^2$ |
| (29) $x^2 + 7xy + 6y^2$ | (30) $-a^2 + 6ab - 8b^2$ |