

解答

1. 因数分解 (レベル1・共通因数) 1

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|-----------------------|-----------------------|
| (1) $-2(3x^2 + 10)$ | (2) $-4(a - 6)$ |
| (3) $2(x^2 - 6)$ | (4) $-2(3x^2 + 10)$ |
| (5) $-15x^2(x^2 + 1)$ | (6) $3(7x^2 - 1)$ |
| (7) $2(3a^2 - 7)$ | (8) $3x^3(3x - 7)$ |
| (9) $4(x^2 + 2)$ | (10) $6x^2(3x^4 - 4)$ |
| (11) $-2(a - 7)$ | (12) $-8a(3a + 2)$ |
| (13) $2x(x^4 + 8)$ | (14) $2(5x - 7)$ |
| (15) $14a^3(a^4 + 1)$ | (16) $2(6x^4 - 5)$ |
| (17) $-6(3a^4 + 5)$ | (18) $15a(a^2 + 1)$ |
| (19) $4a^2(4a^2 + 1)$ | (20) $-3(6a^4 - 1)$ |

3. 因数分解 (レベル1・共通因数) 3

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|-----------------------|-----------------------|
| (1) $4(5a + 1)$ | (2) $8x^2(x^2 + 1)$ |
| (3) $3(7x^2 - 6)$ | (4) $-16x^2(x - 2)$ |
| (5) $2(4a - 1)$ | (6) $3a^2(3a^4 + 7)$ |
| (7) $-4x(3x^4 - 2)$ | (8) $-2(2x - 9)$ |
| (9) $16a^3(a^2 + 2)$ | (10) $4(3a^2 - 1)$ |
| (11) $6(2x^4 + 1)$ | (12) $4a^2(a - 1)$ |
| (13) $6x^2(3x^4 - 5)$ | (14) $3(7a + 2)$ |
| (15) $-28(x - 1)$ | (16) $-4(3x^4 + 2)$ |
| (17) $-2(6x^2 + 7)$ | (18) $4x^2(4x^4 + 7)$ |
| (19) $3x^3(5x - 1)$ | (20) $3a^2(7a + 5)$ |

5. 因数分解 (レベル1・共通因数) 5

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|--------------------------|---------------------------|
| (1) $-2xy(x^4y - 1)$ | (2) $-4a^2b(4a^2b - 7)$ |
| (3) $-2ab(a - 4b)$ | (4) $6ab(3a^2b - 5)$ |
| (5) $3x^2y^2(2x^2 + 3y)$ | (6) $-3a^2b(4a^2b - 9)$ |
| (7) $-4x^3y(2x - 5y)$ | (8) $3ab(3a^4 - b)$ |
| (9) $4xy(3x - 4y)$ | (10) $-3xy(5x^2 + y)$ |
| (11) $8x^2y^3(3x + 2y)$ | (12) $-4x^3y^2(x^4 + 9y)$ |
| (13) $3x^2y^3(5x - y)$ | (14) $4xy(3x - y)$ |
| (15) $-3x^3y(x^2 + 5y)$ | (16) $-21x^3y(x^2y - 1)$ |
| (17) $-24a^2b^2(a - b)$ | (18) $2a^2b^2(7a - 4b)$ |
| (19) $3a^2b(a^2b - 1)$ | (20) $2xy(2xy + 3)$ |

2. 因数分解 (レベル1・共通因数) 2

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|-----------------------|----------------------|
| (1) $-2x^3(4x^4 + 5)$ | (2) $4x^3(7x^4 - 1)$ |
| (3) $-4x^3(3x + 1)$ | (4) $3(x^2 + 5)$ |
| (5) $2x^3(x^2 - 1)$ | (6) $12a(a^4 + 1)$ |
| (7) $-3x^3(3x^2 - 2)$ | (8) $-3(5x - 7)$ |
| (9) $3(x^4 + 10)$ | (10) $-3(7a^4 + 2)$ |
| (11) $3(5a^4 - 4)$ | (12) $3x(x + 3)$ |
| (13) $4a^2(2a + 1)$ | (14) $3(2x^4 - 1)$ |
| (15) $4(4x^2 - 7)$ | (16) $4(a - 1)$ |
| (17) $2x^2(2x + 5)$ | (18) $-6(3x^2 - 4)$ |
| (19) $2a^2(a^2 + 4)$ | (20) $-4(3a^2 - 2)$ |

4. 因数分解 (レベル1・共通因数) 4

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|---------------------------|---------------------------|
| (1) $3x^3y^3(7x^2y - 10)$ | (2) $4xy^2(6x^4y - 7)$ |
| (3) $-2a^3b(a^4b - 8)$ | (4) $-6x^2y^3(x^2 + 5y)$ |
| (5) $-8xy(x^2y - 1)$ | (6) $-3a^3b^2(4ab - 7)$ |
| (7) $2a^2b(a^4b + 5)$ | (8) $4ab(a - b)$ |
| (9) $-24x^2y(x - y)$ | (10) $4x^3y^3(3xy - 8)$ |
| (11) $4a^3b^2(a^4b + 1)$ | (12) $6a^2b^2(a^4b + 3)$ |
| (13) $4x^3y(4x^2y + 7)$ | (14) $-2x^3y(2x^4 - 3y)$ |
| (15) $-2xy^3(2xy - 9)$ | (16) $-16a^2b(a^4b + 1)$ |
| (17) $2a^3b(3a^4b + 7)$ | (18) $4x^3y^3(x - 5y)$ |
| (19) $-6xy(x^4 + 3y)$ | (20) $2x^3y^2(3x^4 + 2y)$ |

6. 因数分解 (レベル1・共通因数) 6

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|--------------------------|---------------------------|
| (1) $-2a^2b(2a^4 - 5b)$ | (2) $8x^3y(3x^2 + 2y)$ |
| (3) $-20xy(x^2y - 2)$ | (4) $-6x^2y(x^4 + 2y)$ |
| (5) $-3a^2b^2(a^2b - 8)$ | (6) $3ab(7a + 10b)$ |
| (7) $8xy(2x - 5y)$ | (8) $-4xy(4x^2 + 9y)$ |
| (9) $4x^3y(x^2y + 2)$ | (10) $3a^2b^2(3a^2b - 7)$ |
| (11) $2xy(x^2 - 3y)$ | (12) $-3xy^2(3x^2y - 7)$ |
| (13) $2xy(7x^4y - 6)$ | (14) $-2ab(a^2 - 9b)$ |
| (15) $21xy^2(x^2y + 1)$ | (16) $4ab^2(4a^4 - b)$ |
| (17) $-2xy^2(7x + 4y)$ | (18) $3a^2b(a^2b + 9)$ |
| (19) $-9a^3b(2a - 3b)$ | (20) $-8xy(x^4y + 3)$ |