

1. **解答** (1) $-3x^2 - x + 3$ (2) $5a + 3b - 5c$ (3) $-x^2 + 2xy - 2y^2$
 (4) $-ab - 2ca$
2. **解答** (1) $7x^2 + 4x - 8$ (2) $x^2 + (y + 4)x + (-2y^2 + 5y + 3)$
3. **解答** (1) $A + B = 2x - 7y$, $A - B = 3y - 2z$
 (2) $A + B = 5x^2 + 5x$, $A - B = 3x^2 - 11x + 2$
4. **解答** (1) a^7 (2) a^{12} (3) a^4b^4 (4) $-15x^6$ (5) $16a^{12}b^8$
 (6) $-72x^8y^7$
5. **解答** (1) $4x^3y - 6x^2y^2 - 2xy^3$ (2) $4a^3b^2 - 2a^2b^3 - 3ab^4$
 (3) $x^3 + x^2 - 5x + 3$ (4) $2a^3 - 7a^2b + 4ab^2 + 3b^3$
 (5) $3x^2 - 3y^2 + 10z^2 - 8xy + 13yz - 11zx$ (6) $x^5 - 7x^3 - 7x^2 + 2x + 3$
 (7) $-x^4 + 3x^3y - x^2y^2 - 3xy^3 + 2y^4$
6. **解答** (1) $x^2 + 4x + 4$ (2) $x^2 - 6x + 9$ (3) $4x^2 + 12x + 9$
 (4) $4x^2 - 20xy + 25y^2$ (5) $x^2 - 4$ (6) $x^2 - 9$ (7) $a^2 - 4b^2$
 (8) $a^2 - 16b^2$ (9) $x^2 + 9x + 20$ (10) $x^2 - 9x + 20$ (11) $x^2 - x - 20$
 (12) $x^2 + x - 20$
7. **解答** (1) $x^4 - 9$ (2) $x^4 - 18x^2 + 81$ (3) $x^4 - 16$
 (4) $x^4 + 4x^2y^2 + 16y^4$
8. **解答** (1) $mab(m - a)$ (2) $6x^2(x^2 + 2)$
 (3) $3ac(3b^2 - 2ac - bc)$ (4) $x(x + 2y + 2z)$
 (5) $(a + b)(x - y)$ (6) $(a - 3b)(2a + b)$
9. **解答** (1) $(x - 9)^2$ (2) $(5a + 2b)^2$ (3) $(10 + a)(10 - a)$
 (4) $3(3x + 4y)(3x - 4y)$
10. **解答** (1) 0.15 (2) $0.\dot{1}\dot{5}$ (3) $1.\dot{1}\dot{6}$ (4) $1.\dot{1}4\dot{8}$
11. **解答** (1) $2\sqrt{3}$ (2) 60 (3) $2\sqrt{5}$ (4) $\frac{5}{2}$ (5) $\sqrt{5}$ (6) $3\sqrt{5}$
 (7) $6\sqrt{2}$ (8) $14\sqrt{6}$
12. **解答** (1) $\pm 1, \pm 2, \pm 4, \pm 8$ (2) 8, 16, 24, 32
13. **解答** 5
14. **解答** (1) $3^2 \cdot 5^2$ (2) $2^2 \cdot 3^2 \cdot 13$ (3) $2^2 \cdot 3^3 \cdot 7$ (4) $2 \cdot 3^2 \cdot 5 \cdot 11$
15. **解答** $n = 30$
16. **解答** (1) 12個 (2) 24個 (3) 15個 (4) 36個
17. **解答** 最大公約数, 最小公倍数の順に
 (1) 15, 90 (2) 13, 910 (3) 12, 792 (4) 126, 756 (5) 35, 2100
 (6) 306, 1836