

教科書の問題の解答

数学 I

練習1 (1)係数6次数2 (2)係数1次数1 (3)係数-1次数4 (4)係数-3次数3

練習2 (1)係数 $2a$ 次数3 (2)係数 $3x$ 次数2 (3)係数 $-6a$ 次数3

練習3 (1) $2x^2 - x + 5$ (2) $-2a^2 - 12b^2$

練習4 (1)3次式 (2)4次式

練習5 (1)3次式, $by^2 + c$ (2)2次式, $ax^3 + c$

練習6 (1) $(a+2)x + 4a^2 - 3a$ (2) $x^2 + (3y-1)x + 2y^2 - 3y - 2$

練習7 (1) $A + B = 6x^2 - 2x - 7$ $A - B = -2x^2 + 8x + 5$

(2) $A + B = 6x^3 - 6x^2 - 2x + 12$ $A - B = 2x^3 - 2x - 2$

練習8 (1) $5x^2 + 2x + 5$ (2) $-4x^2 + 11x - 18$

練習9 (1) $8a^5$ (2) $-3a^3$ (3) $4ab^6$ (4) $-6x^5y^3$ (5) a^4b^6 (6) $-27x^6y^3$

練習10 (1) $8x^4 - 12x^3 + 20x^2$ (2) $-6a^3 + 2a^2 + 4a$

練習11 (1) $8x^3 - 4x^2 + 6x - 3$ (2) $2x^3 - 3x^2 - 5x + 6$ (3) $x^3 + x^2 - 5x + 3$ (4) $6x^3 + 5x^2 - 3x - 2$

練習12 (1) $4x^2 + 20x + 25$ (2) $4x^2 - 12xy + 9y^2$ (3) $25x^2 - 16y^2$ (4) $x^2 + 6x + 5$ (5) $x^2 + 5x - 24$

(6) $x^2 - 6x + 8$ (7) $x^2 + 7xy + 10y^2$ (8) $x^2 - 3xy - 4y^2$ (9) $x^2 - 9ax + 14a^2$

練習13 (1) $8x^2 + 14x + 5$ (2) $2x^2 + 5x - 12$ (3) $3x^2 - x - 14$ (4) $4x^2 - 12x + 5$

(5) $3x^2 + 5xy - 2y^2$ (6) $12x^2 - 17ax + 6a^2$

練習14 (1) $9a^2 - 6ab + b^2 - 4$ (2) $x^2 - 2xy + y^2 + x - y - 6$

練習15 $x^4 + x^2 + 1$

練習16 (1) $a^2 + b^2 + c^2 + 2ab - 2bc - 2ca$ (2) $x^2 + 4y^2 + 9z^2 + 4xy + 12yz + 6zx$

練習17 (1) $x^4 - 2x^2 + 1$ (2) $x^4 - 1$

練習18 (1) $a(3b - 2c)$ (2) $4x^2(3x - 2y)$ (3) $ax(3a + 6x + 1)$

練習19 (1) $(a + b)(c + d)$ (2) $(a - 2b)(x - y)$

練習20 (1) $(x + 5)^2$ (2) $(x - 6)^2$ (3) $(x + 3y)^2$ (4) $(2a - b)^2$ (5) $(x + 3y)(x - 3y)$ (6) $(4a + 5b)(4a - 5b)$

練習21 (1) $(x + 2)(x + 6)$ (2) $(x - 3)(x - 4)$ (3) $(x + 4)(x - 2)$ (4) $(x + 1)(x - 6)$

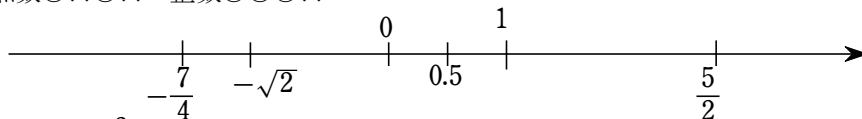
(5) $(a - 4)(a - 9)$ (6) $(y + 4)(y - 5)$

練習22 (1) $(x + 2y)(x + 3y)$ (2) $(x - 4y)(x - 2y)$ (3) $(x + 9a)(x - 2a)$ (4) $(x + 3a)(x - 4a)$

練習28 (1) $0.\dot{8}$ (2) $0.5\dot{4}$ (3) $0.3\dot{7}0$ (4) $1.1\dot{3}\dot{6}$

練習29 自然数○×○× 整数○○○×

練習30



練習31 (1)3 (2)4 (3) $\frac{2}{3}$

練習32 5, -5

練習33 (1)1 (2)4 (3) $\pi - 3$

練習34 (1) $\pm\sqrt{6}$ (2) $4, -\frac{3}{5}$

練習35 (1) $\sqrt{6}$ (2) $\sqrt{10}$ (3) $\sqrt{2}$ (4)2

練習36 (1) $\sqrt{18}$ (2) $\sqrt{48}$ (3) $\sqrt{125}$ (4) $\sqrt{\frac{3}{4}}$

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練習37 (1) $2\sqrt{2}$ (2) $2\sqrt{3}$ (3) $5\sqrt{2}$

練習38 (1) $4\sqrt{3}$ (2) $-\sqrt{2}$ (3) $3\sqrt{2} - 2\sqrt{3}$ (4) $5\sqrt{5} - \sqrt{6}$

練習39 (1) $1 + 2\sqrt{10}$ (2) $-12 + 15\sqrt{2}$ (3) $10 + 2\sqrt{21}$ (4) $10 - 4\sqrt{6}$ (5) 1 (6) 4

数学A

練習1 (1) $\pm 1, \pm 2, \pm 3, \pm 4, \pm 6, \pm 12$ (2) 6, 12, 18, 24, 30

練習2 (1) $a = 4k, b = 4l$ (k, l は整数とおくと $a - b = 4(k - l)$ で $k - l$ は整数なので4の倍数

(2) $a = 5k, a + b = 5l$ (k, l は整数とおくと $b = a + b - a = 5(l - k)$ で $l - k$ は整数なので5の倍数

練習3 (1) $3 \circ 9 \times$ (2) $3 \times 9 \times$ (3) $3 \circ 9 \circ$

練習4 0

練習5 (1) $2^4 \cdot 3^2$ (2) $2^2 \cdot 3^2 \cdot 5$ (3) $3 \cdot 5^2 \cdot 7$

練習6 $n = 42$

練習7 (1) 1, 3, 9, 5, 15, 45 (2) 1, 2, 4, 8, 7, 14, 28, 56 (3) 1, 2, 4, 3, 6, 12, 5, 10, 20, 15, 30, 60 (順番に意味あり)

練習8 (1) $2 \cdot 3 = 6$ (2) $3 \cdot 3 = 9$ (3) $2 \cdot 3 \cdot 3 = 18$

練習9 12 練習10 45

練習11 (1) 最大公約数12最小公倍数360 (2) 最大公約数35最小公倍数 4200

練習12 最大公約数4最小公倍数 1260

練習13 20, 60, 180 練習14 1, 5, 7, 11