

都立過去問 I (1) 正負の数

$$(R3) -3^2 \times \frac{1}{9} + 8$$

$$(R2) 9 - 8 \div \frac{1}{2}$$

$$(R1) 5 + \frac{1}{2} \times (-8)$$

$$(H30) 5 - \frac{1}{3} \times (-9)$$

$$(H29) 6 - 9 \times \left(-\frac{1}{3}\right)$$

$$(H28) -6 - 4^2 \times \frac{1}{8}$$

$$(H27) -7 + 8 \div \frac{1}{2}$$

$$(H26) -6^2 + 4 \times 7$$

$$(H25) -7 + 8 \times \left(-\frac{1}{4}\right)$$

$$(H24) 6 + 4 \times \left(-\frac{1}{2}\right)$$

$$(H23) -3^2 \times \frac{4}{9} + 8$$

$$(H22) 9 + 6 \div \left(-\frac{1}{3}\right)$$

$$(H21) -6 \div \frac{3}{4} + 7$$

$$(H20) 4 - 8 \times \left(-\frac{1}{2}\right)$$

$$(H19) 4 + 6 \times \left(-\frac{1}{3}\right)$$

$$(H18) -\frac{1}{2} \times 4 + 8$$

$$(H17) 9 + 8 \times \left(-\frac{1}{4}\right)$$

$$(H16) 8 - 6 \div \frac{1}{2}$$

$$(H15) \frac{2}{3} \times (-6) + 9$$

$$(H14) 1 + \frac{8}{7} \div (-4)$$

$$(H13) -4 + \frac{1}{3} \times (-6)$$

$$(H12) 1 + \frac{7}{8} \times (-2)$$

$$(R3) \frac{5a-b}{2} - \frac{a-7b}{4}$$

$$(R2) 3(5a-b) - (7a-4b)$$

$$(R1) 4(a-b) - (a-9b)$$

$$(H30) 8(a+b) - (4a-b)$$

$$(H29) 8a+b - (a-7b)$$

$$(H28) 7a-b - 5(a-2b)$$

$$(H27) 9a+4b - (a-3b)$$

$$(H26) 9a+5b - (8a-b)$$

$$(H25) 9(a+b) - (a+3b)$$

$$(H24) 8a+b - (a-7b)$$

$$(H23) a-8b - 2(a-7b)$$

$$(H22) a+6b - 2(5a-b)$$

$$(H21) a + 6b - 2(5a - b)$$

$$(H20) 5a + 9b - 3(a + 4b)$$

$$(H19) 9a + b - 6(2a - b)$$

$$(H18) 3(5a + b) - (7a - 4b)$$

$$(H17) a + 7b - 2(3a - b)$$

$$(H16) -a + 4b - 5(a - b)$$

$$(H15) 4(a + b) - (8a - 5b)$$

$$(H14) 9a - 5b - (a - 6b)$$

$$(H13) 2(8a + b) - (9a - b)$$

$$(H12) 8a - 5 - (a + 1)$$

$$(H11) -5a + 2 - (a - 5)$$

$$(H10) 6a - 5 - 8(a - 1)$$

都立過去問 I (3) 根号を含む式の計算

(R3) $3 \div \sqrt{6} \times \sqrt{8}$

(R2) $(2 - \sqrt{6})(1 + \sqrt{6})$

(R1) $(\sqrt{7} - 1)^2$

(H30) $(\sqrt{7} + 2\sqrt{3})(\sqrt{7} - 2\sqrt{3})$

(H29) $(6 + \sqrt{2})(1 - \sqrt{2})$

(H28) $\sqrt{48} + \frac{9}{\sqrt{3}}$

(H27) $(\sqrt{6} + 5)(\sqrt{6} - 2)$

(H26) $\sqrt{27} - 12 \div \sqrt{3}$

(H25) $(\sqrt{7} + 6)(\sqrt{7} - 2)$

(H24) $(\sqrt{5} + \sqrt{3})(\sqrt{5} - \sqrt{3})$

(H23) $(\sqrt{5} - 1)^2$

(H22) $(\sqrt{5} + 4)(\sqrt{5} - 1)$

$$(H21) \sqrt{48} - \frac{9}{\sqrt{3}}$$

$$(H20) (\sqrt{7} + \sqrt{2})(\sqrt{7} - \sqrt{2})$$

$$(H19) (\sqrt{5} + 2)^2$$

$$(H18) \sqrt{8} - \sqrt{2} \times 6$$

$$(H17) (\sqrt{6} - 1)^2$$

$$(H16) (3 - \sqrt{7})(3 + \sqrt{7})$$

$$(H15) (\sqrt{6} - 1)(\sqrt{6} + 3)$$

$$(H14) (\sqrt{3} + 2)(\sqrt{3} - 2)$$

$$(H13) (\sqrt{2} + 1)^2$$

$$(H12) 3\sqrt{2} + \sqrt{8}$$

$$(H11) \sqrt{5} - \sqrt{45}$$

$$(H10) (\sqrt{3} + 1)(\sqrt{3} + 2)$$

都立過去問 I (4) 1次方程式

$$(R3) -4x + 2 = 9(x - 7)$$

$$(R2) 9x + 4 = 5(x + 8)$$

$$(R1) 4x + 6 = 5(x + 3)$$

$$(H30) 4x - 5 = x - 6$$

$$(H29) 3(x + 5) = 4x + 9$$

$$(H28) x + 6 = 2(x + 1)$$

$$(H27) x - 7 = 9(x + 1)$$

$$(H26) 9x - 8 = 5(x + 4)$$

$$(H25) x - 5 = 3x + 1$$

$$(H24) 9x + 2 = 8(x + 1)$$

$$(H23) 3x - 8 = 7(x + 4)$$

$$(H22) x + 6 = 3x - 8$$

$$(H21) \quad 4x + 7 = 8x - 1$$

$$(H20) \quad x - 6 = 8x + 1$$

$$(H19) \quad 8x + 1 = 9x - 7$$

$$(H18) \quad x - 9 = 3x + 1$$

$$(H17) \quad x - 4 = 8(x + 3)$$

$$(H16) \quad 6x + 9 = 8x - 5$$

$$(H15) \quad x - 8 = 4x + 7$$

$$(H14) \quad 5x - 4 = 7x + 8$$

$$(H13) \quad 4x - 1 = 5x - 9$$

$$(H12) \quad x - 9 = 4x + 15$$

$$(H11) \quad 3x - 5 = 2(20 - x)$$

$$(H10) \quad 4x + 9 = 2x - 5$$

都立過去問 I (5) 連立方程式

$$(R3) \begin{cases} 5x + y = 1 \\ -x + 6y = 37 \end{cases}$$

$$(R2) \begin{cases} 7x - 3y = 6 \\ x + y = 8 \end{cases}$$

$$(R1) \begin{cases} -x + 2y = 8 \\ 3x - y = 6 \end{cases}$$

$$(H30) \begin{cases} 7x - y = 8 \\ -9x + 4y = 6 \end{cases}$$

$$(H29) \begin{cases} x + y = 7 \\ 4x - y = 8 \end{cases}$$

$$(H28) \begin{cases} 9x - 5y = -7 \\ -3x + 2y = 4 \end{cases}$$

$$(H27) \begin{cases} 3x + 4y = 8 \\ x - 2y = 6 \end{cases}$$

$$(H26) \begin{cases} 2x + 3y = -6 \\ x = -4y + 7 \end{cases}$$

$$(H25) \begin{cases} 4x - y = 9 \\ x - 6y = 8 \end{cases}$$

$$(H21) \begin{cases} 3x + 5y = 9 \\ 2x + y = -8 \end{cases}$$

$$(H24) \begin{cases} 3x + y = 4 \\ 6x + 5y = -7 \end{cases}$$

$$(H20) \begin{cases} y = x - 3 \\ 5x - 6y = 9 \end{cases}$$

$$(H23) \begin{cases} x + 2y = 1 \\ 5x + 9y = 6 \end{cases}$$

$$(H19) \begin{cases} 7x + 3y = 5 \\ 4x - y = -8 \end{cases}$$

$$(H22) \begin{cases} 4x + y = 9 \\ x + 5y = 7 \end{cases}$$

$$(H18) \begin{cases} x - 4y = 6 \\ 3x + y = 5 \end{cases}$$

$$(H17) \begin{cases} -2x + 5y = 1 \\ 3x + y = 7 \end{cases}$$

$$(H16) \begin{cases} 3x + 2y = -7 \\ y = x + 9 \end{cases}$$

$$(H15) \begin{cases} 2x + 5y = 1 \\ x - 4y = 7 \end{cases}$$

$$(H14) \begin{cases} 2x - y = 12 \\ x = 4y - 1 \end{cases}$$

$$(H13) \begin{cases} 3x + 7y = -8 \\ -x + y = 6 \end{cases}$$

$$(H12) \begin{cases} 2x - y = -7 \\ 3x + 4y = 6 \end{cases}$$

$$(H11) \begin{cases} y = 3x - 7 \\ 4x - y = 8 \end{cases}$$

$$(H10) \begin{cases} 2x - y = 5 \\ x + 3y = -8 \end{cases}$$

都立過去問 1 (6) 2次方程式

(R3) $(x+8)^2=2$

(R2) $3x^2+9x+5=0$

(R1) $x^2+x-9=0$

(H30) $x^2+12x+35=0$

(H29) $x^2+5x+2=0$

(H28) $x^2+5x-6=0$

(H27) $x^2+5x-3=0$

(H26) $x^2-5x+1=0$

(H25) $x^2-12x+35=0$

(H24) $x^2-8x-9=0$

(H23) $x^2-7x=0$

(H22) $(x+2)^2=36$

$$(H21) \quad x^2 + 10x + 25 = 0$$

$$(H20) \quad x^2 + 4x = 0$$

$$(H19) \quad x^2 + 2x - 63 = 0$$

$$(H18) \quad x^2 + x - 72 = 0$$

$$(H17) \quad x^2 - 5x - 24 = 0$$

$$(H16) \quad (x + 1)^2 = 4$$

$$(H15) \quad x^2 + 5x - 36 = 0$$

$$(H14) \quad (x - 6)^2 = 9$$

$$(H13) \quad x^2 + 5x - 36 = 0$$

$$(H12) \quad (x - 5)^2 = 16$$

$$(H11) \quad x^2 + 5x - 24 = 0$$

$$(H10) \quad x^2 - 4x - 12 = 0$$