

第十二課 一元一次方程式(第十二級)

例題

$$(1) 3-x=5x-7$$

$$-x-5x=-7-3$$

$$-6x=-10$$

$$x=\frac{-10}{-6}$$

$$x=\frac{5}{3}$$

$$(2) 4-5x=3+2x$$

$$-5x-2x=3-4$$

$$-7x=-1$$

$$x=\frac{-1}{-7}$$

$$x=\frac{1}{7}$$

$$(3) 9-2x=3x-5$$

$$-2x-3x=-5-9$$

$$-5x=-14$$

$$x=\frac{-14}{-5}$$

$$x=\frac{14}{5}$$

$$(4) 10-x=9x-6$$

$$-x-9x=-6-10$$

$$-10x=-16$$

$$x=\frac{-16}{-10}$$

$$x=\frac{8}{5}$$

$$(5) 3-2x=5x+9$$

$$-2x-5x=9-3$$

$$-7x=6$$

$$x = \frac{6}{-7}$$

$$x = -\frac{6}{7}$$

$$\begin{aligned} (6) \quad & 3 - 2x = 9 - 5x \\ & -2x + 5x = 9 - 3 \\ & 3x = 6 \\ & x = 2 \end{aligned}$$

$$\begin{aligned} (7) \quad & 1 - 8x = -9x + 2 \\ & -8x + 9x = 2 - 1 \\ & x = 1 \end{aligned}$$

$$\begin{aligned} (8) \quad & -3 + 2x = 5x - 9 \\ & 2x - 5x = -9 + 3 \\ & -3x = -6 \\ & x = 2 \end{aligned}$$

$$\begin{aligned} (9) \quad & -5 + x = 2x + 3 \\ & x - 2x = 3 + 5 \\ & -x = 8 \\ & x = -8 \end{aligned}$$

$$\begin{aligned} (10) \quad & 3 - 2x = 5 - x \\ & -2x + x = 5 - 3 \\ & -x = 2 \\ & x = -2 \end{aligned}$$

$$\begin{aligned} (11) \quad & 5 - 9x = 7x - 16 \\ & -9x - 7x = -16 - 5 \\ & -16x = -21 \\ & x = \frac{-21}{-16} \\ & x = \frac{21}{16} \end{aligned}$$

$$(12) 1-x=2+3x$$

$$-x-3x=2-1$$

$$-4x=1$$

$$x=\frac{1}{-4}$$

$$x=-\frac{1}{4}$$

$$(13) 5-6x=3x-2$$

$$-6x-3x=-2-5$$

$$-9x=-7$$

$$x=\frac{-7}{-9}$$

$$x=\frac{7}{9}$$

$$(14) 2-x=2x+5$$

$$-x-2x=5-2$$

$$-3x=3$$

$$x=-1$$

$$(15) 4-x=2x-9$$

$$-x-2x=-9-4$$

$$-3x=-13$$

$$x=\frac{-13}{-3}$$

$$x=\frac{13}{3}$$

習題	答案
(1) $2-x=2x+5$	$x=-1$
(2) $3+x=5x-4$	$x=\frac{7}{4}$
(3) $-2+3x=2x-1$	$x=1$
(4) $5-2x=5x-6$	$x=\frac{11}{7}$
(5) $-3+x=2x-6$	$x=3$
(6) $-2+3x=2x-7$	$x=-5$

(7) $3-5x=2x+4$	$x=-\frac{1}{7}$
(8) $3+5x=2x-9$	$x=-4$
(9) $5-x=3x+6$	$x=-\frac{1}{4}$
(10) $1-x=2x+9$	$x=-\frac{8}{3}$
(11) $3-x=2x+6$	$x=-1$
(12) $-3-x=3x+6$	$x=-\frac{9}{4}$
(13) $5-2x=3x-10$	$x=3$
(14) $1+x=2x-9$	$x=10$
(15) $3-2x=-x+5$	$x=-2$