

第十四課 一元一次方程式(第十四級)

例題

$$(1) \quad x+5=7-2x$$

$$x+2x=7-5$$

$$3x=2$$

$$x=\frac{2}{3}$$

$$(2) \quad 3x-1=1-x$$

$$3x+x=1+1$$

$$4x=2$$

$$x=\frac{2}{4}$$

$$x=\frac{1}{2}$$

$$(3) \quad 1-2x=3x+5$$

$$-2x-3x=5-1$$

$$-5x=4$$

$$x=\frac{4}{-5}$$

$$x=-\frac{4}{5}$$

$$(4) \quad -3-5x=7x+6$$

$$-5x-7x=6+3$$

$$-12x=9$$

$$x=\frac{9}{-12}$$

$$x=-\frac{3}{4}$$

$$(5) \quad -3x+2=-5x-7$$

$$-3x+5x=-7-2$$

$$2x=-9$$

$$x=\frac{-9}{2}$$

$$x = -\frac{9}{2}$$

$$\begin{aligned}(6) \quad & 3 - 2x = 5 + 4x \\ & -2x - 4x = 5 - 3 \\ & -6x = 2\end{aligned}$$

$$x = \frac{2}{-6}$$

$$x = -\frac{1}{3}$$

$$\begin{aligned}(7) \quad & -x + 6 = 3 - 2x \\ & -x + 2x = 3 - 6 \\ & x = -3\end{aligned}$$

$$\begin{aligned}(8) \quad & 7 - 2x = 4x - 6 \\ & -2x - 4x = -6 - 7 \\ & -6x = -13\end{aligned}$$

$$x = \frac{-13}{-6}$$

$$x = \frac{13}{6}$$

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

$$x = \frac{-8}{-2}$$

$$x = 4$$

$$\begin{aligned}(10) \quad & -2x + 3 = 6 + 2x \\ & -2x - 2x = 6 - 3 \\ & -4x = 3\end{aligned}$$

$$x = \frac{3}{-4}$$

$$x = -\frac{3}{4}$$

$$(11) -2 - 2x = 3x - 6$$

$$-2x - 3x = -6 + 2$$

$$-5x = -4$$

$$x = \frac{-4}{-5}$$

$$x = \frac{4}{5}$$

$$(12) 3x + 6 = 2x + 7$$

$$3x - 2x = 7 - 6$$

$$x = 1$$

$$(13) -2x + 1 = 3x - 6$$

$$-2x - 3x = -6 - 1$$

$$-5x = -7$$

$$x = \frac{-7}{-5}$$

$$x = \frac{7}{5}$$

$$(14) 2x - 1 = 3x - 6$$

$$2x - 3x = -6 + 1$$

$$-x = -5$$

$$x = 5$$

$$(15) 2x + 3 = 6x - 1$$

$$2x - 6x = -1 - 3$$

$$-4x = -4$$

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

$$x = 1$$

習題	答案
(1) $x + 3 = 2x - 6$	$x = 9$
(2) $3x - 1 = x - 2$	$x = -\frac{1}{2}$
(3) $-x + 3 = x - 2$	$x = \frac{5}{2}$

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