

第八課 一元一次方程式(第八級)

例題

$$(1) 3x-9=5$$

$$3x=5+9$$

$$3x=14$$

$$x=\frac{14}{3}$$

$$(2) 5x-\frac{1}{2}=\frac{1}{3}$$

$$5x=\frac{1}{3}+\frac{1}{2}$$

$$5x=\frac{5}{6}$$

$$x=\frac{\frac{5}{6}}{5}$$

$$x=\frac{5}{6}\times\frac{1}{5}$$

$$x=\frac{1}{6}$$

$$(3) 4x-3=7$$

$$4x=7+3$$

$$4x=10$$

$$x=\frac{10}{4}$$

$$x=\frac{5}{2}$$

$$(4) 3x-\frac{1}{2}=\frac{3}{4}$$

$$3x=\frac{3}{4}+\frac{1}{2}$$

$$3x=\frac{3+2}{4}$$

$$3x=\frac{5}{4}$$

$$X = \frac{\frac{5}{4}}{3}$$

$$X = \frac{5}{4} \times \frac{1}{3}$$

$$X = \frac{5}{12}$$

$$(5) \quad 7X - 9 = 6$$

$$7X = 6 + 9$$

$$7X = 15$$

$$X = \frac{15}{7}$$

$$(6) \quad 3X + 2 = 5$$

$$3X = 5 - 2$$

$$3X = 3$$

$$X = 1$$

$$(7) \quad 4X + 5 = \frac{1}{3}$$

$$4X = \frac{1}{3} - 5$$

$$4X = \frac{1 - 15}{3}$$

$$4X = \frac{-14}{3}$$

$$X = \frac{\frac{-14}{3}}{4}$$

$$X = -\frac{14}{3} \times \frac{1}{4}$$

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

$$(8) \quad 3x - \frac{1}{2} = -\frac{1}{5}$$

$$3X = -\frac{1}{5} + \frac{1}{2}$$

$$3X = \frac{-2 + 5}{10}$$

$$3x = \frac{3}{10}$$

$$x = \frac{\frac{3}{10}}{3}$$

$$x = \frac{3}{10} \times \frac{1}{3}$$

$$x = \frac{1}{10}$$

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

$$-2x = 9 - 3$$

$$-2x = 6$$

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

$$x = -3$$

$$(10) -3x + 5 = 6$$

$$-3x = 6 - 5$$

$$-3x = 1$$

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

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

$$(11) 5x - 9 = \frac{1}{2}$$

$$5x = \frac{1}{2} + 9$$

$$5x = \frac{1 + 18}{2}$$

$$5x = \frac{19}{2}$$

$$x = \frac{\frac{19}{2}}{5}$$

$$x = \frac{19}{2} \times \frac{1}{5}$$

$$x = \frac{19}{10}$$

$$(12) -3x - 6 = -2$$

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

$$-3x = 4$$

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

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

$$(13) -3x + 1 = 4$$

$$-3x = 4 - 1$$

$$-3x = 3$$

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

$$x = -1$$

$$(14) 2x + 5 = 7$$

$$2x = 7 - 5$$

$$2x = 2$$

$$x = 1$$

$$(15) -3x - 6 = 9$$

$$-3x = 9 + 6$$

$$-3x = 15$$

$$x = \frac{15}{-3}$$

$$x = -5$$

習題	答案
(1) $3x - 6 = 9$	$x = 5$
(2) $2x - 7 = -6$	$x = \frac{1}{2}$
(3) $4x + \frac{1}{2} = -\frac{1}{3}$	$x = -\frac{5}{24}$
(4) $-3x + 1 = 5$	$x = -\frac{4}{3}$
(5) $-2x + \frac{1}{2} = \frac{2}{3}$	$x = -\frac{1}{12}$

(6) $5x-10=5$	$x=3$
(7) $-2x+6=3$	$x=\frac{3}{2}$
(8) $-3x+2=\frac{1}{2}$	$x=\frac{1}{2}$
(9) $4x+3=-9$	$x=-3$
(10) $-2x+1=5$	$x=-2$
(11) $-3x+\frac{1}{2}=\frac{3}{2}$	$x=-\frac{1}{3}$
(12) $5x-6=4$	$x=2$
(13) $5x+7=\frac{1}{2}$	$x=-\frac{13}{10}$
(14) $2x-6=5$	$x=\frac{11}{2}$
(15) $3x-7=10$	$x=\frac{17}{3}$