

P 9 0 練習問題 (宿題として 2 0 分程度)

1.

$$(1) 3x = 21$$

$$\frac{3x}{3} = \frac{21}{3}$$

$$x = 7$$

$$(2) 17x = 17$$

$$\frac{17x}{17} = \frac{17}{17}$$

$$x = 1$$

$$(3) \frac{4}{5}x = 8$$

$$\frac{4}{5}x \times \frac{5}{4} = 8 \times \frac{5}{4}$$

$$x = 10$$

$$(4) 18 = -2x$$

$$2x = -18$$

$$\frac{2x}{2} = \frac{-18}{2}$$

$$x = -9$$

$$(5) 6x - 11 = 7$$

$$6x = 7 + 11$$

$$6x = 18$$

$$x = 3$$

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

$$-2x = 12 - 6$$

$$-2x = 6$$

$$x = -3$$

$$(7) 4x - 9 = 3x - 15$$

$$4x - 3x = -15 + 9$$

$$x = -6$$

$$(8) x - 17 = -7 - 3x$$

$$x + 3x = -7 + 17$$

$$4x = 10$$

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

$$(9) 9x - 70 = 6x + 80$$

$$9x - 6x = 80 + 70$$

$$3x = 150$$

$$x = 50$$

$$(10) 8 + 4x = 10x + 16$$

$$4x - 10x = 16 - 8$$

$$-6x = 8$$

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

$$(11) 3x - 1200 = 1200 + 9x$$

$$3x - 9x = 1200 + 1200$$

$$-6x = 2400$$

$$x = -400$$

$$(12) -18 + 5x = 12x - 18$$

$$5x - 12x = -18 + 18$$

$$-7x = 0$$

$$x = 0$$

2.

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

$$2x+2=x+3$$

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

$$x=1$$

$$(2) \quad 3(x-8)=9(4-x)$$

$$3x-24=36-9x$$

$$3x+9x=36+24$$

$$12x=60$$

$$x=5$$

$$(3) \quad -3(2x-4)=5(x-2)$$

$$-6x+12=5x-10$$

$$-6x-5x=-10-12$$

$$-11x=-22$$

$$x=2$$

$$(4) \quad 80-30(x-5)=110$$

$$80-30x+150=110$$

$$-30x=110-80-150$$

$$-30x=-120$$

$$x=4$$

$$(5) \quad 0.1x=0.4(x-2)-0.2$$

$$0.1x=0.4x-0.8-0.2$$

$$x=4x-8-2$$

$$x-4x=-10$$

$$-3x=-10$$

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

$$(6) \quad \frac{1}{4}x-1=\frac{1}{2}x$$

4倍して

$$x-4=2x$$

$$x-2x=4$$

$$-x=4$$

$$x=-4$$

$$(7) \frac{3x-7}{5} = \frac{x+1}{2}$$

10倍して

$$6x-14=5x+5$$

$$6x-5x=5+14$$

$$x=19$$

$$(8) 5 + \frac{3}{100}x = \frac{7}{100}x$$

100倍して

$$500 + 3x = 7x$$

$$3x - 7x = -500$$

$$-4x = -500$$

$$x = 125$$