

第十九課

$$1. 3(x + 1) = 5(x + 2) - 6$$

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

$$3x - 5x = 10 - 6 - 3$$

$$-2x = 1$$

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

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

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

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

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

$$4x = 3$$

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

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

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

$$3x - x = -3 - 4$$

$$2x = -7$$

$$x = -\frac{7}{2}$$

$$4. (x + 2) = (2x - 1) + 1$$

$$x + 2 = 2x - 1 + 1$$

$$x - 2x = -2$$

$$-x = -2$$

$$x = 2$$

$$5. -(x - 1) = 3(x + 2) + 2$$

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

$$-x - 3x = 8 - 1$$

$$-4x = 7$$

$$x = -\frac{7}{4}$$

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

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

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

$$x = 4$$

$$7. -(x - 1) = 2(x + 1) - 1$$

$$-x + 1 = 2x + 2 - 1$$

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

$$-3x = 0$$

$$x = 0$$

$$8. 3(x - 1) = 2(x + 2) - 4$$

$$3x - 3 = 2x + 4 - 4$$

$$3x - 2x = 0 + 3$$

$$x = 3$$

$$9. 2(x - 1) = 3(x + 2) - 1$$

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

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

$$-x = 7$$

$$x = -7$$

$$10. 2(x - 1) = 4(x - 1) + 3$$

$$2x - 2 = 4x - 4 + 3$$

$$2x - 4x = -1 + 2$$

$$-2x = 1$$

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

$$11. 3(x + 2) - 1 = x + 4$$

$$3x + 6 - 1 = x + 4$$

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

$$2x = -1$$

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

$$12. -3(x + 2) - 1 = x + 4$$

$$-3x - 6 - 1 = x + 4$$

$$-3x - x = 4 + 7$$

$$-4x = 11$$

$$x = -\frac{11}{4}$$

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

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

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

$$x = 1$$

$$14. -2(x + 2) = (x + 1) - 6$$

$$-2x - 4 = x + 1 - 6$$

$$-2x - x = -5 + 4$$

$$-3x = -1$$

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

$$15. (x + 2) + 3 = -x + 4$$

$$x + 2 + 3 = -x + 4$$

$$x + x = 4 - 5$$

$$2x = -1$$

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

習題

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

解答

1. $x = \frac{7}{2}$

2. $x = -\frac{1}{5}$

3. $x = \frac{1}{5}$

4. $x = 6$

5. $x = 3$

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

7. $x = 4$

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

9. $x = -7$

10. $x = -4$

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

12. $x = 9$

13. $x = 2$

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

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