第十九課

1.$3\left(x+1\right)=5\left(x+2\right)$

 $3x+3=5x+10$

 $3x-5x=10-3$

 $-2x=7$

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

2.$-2\left(x+1\right)=3\left(x+2\right)$

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

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

 $-5x=8$

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

3.$-2\left(x-1\right)=x+2$

 $-2x+2=x+2$

 $-2x-x=2-2$

 $-3x=0$

 $x=0$

4.$5\left(x+1\right)=2\left(x-1\right)$

 $5x+5=2x-2$

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

 $3x=-7$

 $x=-\frac{7}{3}$

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

 $x+2=3x-3$

 $x-3x=-3-2$

 $-2x=-5$

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

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

 $-4x+2=x+3$

 $-4x-x=3-2$

 $-5x=1$

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

7.$\left(2x-1\right)=-3\left(x+1\right)$

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

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

 $5x=-2$

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

8.$\left(x+2\right)=-3\left(x-4\right)$

 $x+2=-3x+12$

 $x+3x=12-2$

 $4x=10$

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

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

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

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

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

 $5x=-4$

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

10.$5\left(x-1\right)=6\left(x+2\right)$

 $5x-5=6x+12$

 $5x-6x=12+5$

 $-x=17$

 $x=-17$

11.$3\left(x-1\right)=2\left(2x+1\right)$

 $3x-3=4x+2$

 $3x-4x=2+3$

 $-x=5$

 $x=-5$

12.$2\left(x+2\right)=(x-3)$

 $2x+4=x-3$

 $2x-x=-3-4$

 $x=-7$

13.$-3\left(x+2\right)=2\left(x-2\right)$

 $-3x-6=2x-4$

 $-3x-2x=-4+6$

 $-5x=2$

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

14.$-\left(x+2\right)=3\left(x+4\right)$

 $-x-2=3x+12$

 $-x-3x=12+2$

 $-4x=14$

 $x=-\frac{14}{4}$

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

15.$2\left(x+1\right)=-3\left(x-1\right)$

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

 $2x+3x=4-2$

 $5x=2$

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

習題

1.$\left(x+2\right)=3\left(x-1\right)$

2.$-\left(x+2\right)=3\left(x-1\right)$

3.$\left(x-2\right)=3\left(x-4\right)$

4.$-2\left(x+1\right)=3\left(x-1\right)$

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

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

7.$-3\left(x-1\right)=2\left(x+1\right)$

8.$2\left(x+1\right)=\left(x+3\right)$

9.$-\left(x+1\right)=x+3$

10.$3\left(2x-1\right)=5\left(x-2\right)$

11.$-3\left(2x-1\right)=5\left(x-2\right)$

12.$\left(-x+1\right)=\left(-2x+3\right)$

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

14.$\left(3x-1\right)=-2\left(x+2\right)$

15.$-\left(3x-1\right)=\left(x+2\right)$

解答

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

2.$x=\frac{1}{4}$

3.$x=5$

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

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

6.$x=5$

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

8.$x=1$

9.$x=-2$

10.$x=-13$

11.$x=\frac{13}{11}$

12.$x=2$

13.$x=1$

14.$x=-\frac{3}{5}$

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