

## 1. 1次方程式（分母を払う） その1

$$(1) \frac{x-1}{12} = \frac{-2x-8}{9}$$

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

$$(3) \frac{-x+9}{3} = \frac{-x-9}{9}$$

$$(4) \frac{-2x+9}{9} = \frac{x+7}{12}$$

$$(5) \frac{4x-6}{15} = \frac{-x-8}{5}$$

$$(6) \frac{3x+4}{4} = \frac{-x+9}{5}$$

$$(7) \frac{3x-2}{4} = \frac{3x-7}{5}$$

$$(8) \frac{x+1}{12} = \frac{x-2}{9}$$

$$(9) \frac{-x+5}{3} = \frac{x+1}{5}$$

$$(10) \frac{x-7}{4} = \frac{2x+1}{3}$$

$$(11) \frac{-x+4}{6} = \frac{-x+3}{12}$$

$$(12) \frac{4x-7}{12} = \frac{4x-2}{3}$$

## 2. 1次方程式（分母を払う） その2

$$(1) \frac{x+2}{3} = \frac{3x+6}{2}$$

$$(2) \frac{2x+4}{15} = \frac{x-2}{3}$$

$$(3) \frac{-2x+1}{12} = \frac{x+1}{2}$$

$$(4) \frac{4x+5}{8} = \frac{4x+9}{6}$$

$$(5) \frac{x-1}{12} = \frac{2x+2}{3}$$

$$(6) \frac{3x-4}{12} = \frac{2x+5}{3}$$

$$(7) \frac{3x+5}{6} = \frac{-2x-5}{9}$$

$$(8) \frac{x-1}{3} = \frac{2x+3}{4}$$

$$(9) \frac{x+1}{3} = \frac{-x+2}{9}$$

$$(10) \frac{-2x+4}{5} = \frac{x+9}{3}$$

$$(11) \frac{x+7}{8} = \frac{-x+5}{2}$$

$$(12) \frac{-x+10}{9} = \frac{x-5}{6}$$

### 3. 1次方程式（分母を払う） その3

$$(1) \frac{4x+7}{4} = \frac{-x-3}{8}$$

$$(2) \frac{4x-2}{3} = \frac{3x+9}{4}$$

$$(3) \frac{-x-1}{4} = \frac{x+10}{6}$$

$$(4) \frac{-x-1}{2} = \frac{x-8}{6}$$

$$(5) \frac{4x+1}{3} = \frac{2x+7}{5}$$

$$(6) \frac{x+7}{12} = \frac{x+2}{6}$$

$$(7) \frac{x-8}{12} = \frac{x-5}{9}$$

$$(8) \frac{-x+4}{3} = \frac{-x-1}{4}$$

$$(9) \frac{-2x+3}{3} = \frac{3x+4}{12}$$

$$(10) \frac{-x-1}{3} = \frac{-x-4}{12}$$

$$(11) \frac{-x+9}{8} = \frac{3x-7}{6}$$

$$(12) \frac{x-4}{3} = \frac{x+6}{5}$$

#### 4. 1次方程式（分母を払う） その4

(1) 
$$\frac{-x-7}{3} = \frac{x-1}{6}$$

(2) 
$$\frac{-x+2}{6} = \frac{x+7}{3}$$

(3) 
$$\frac{2x-9}{12} = \frac{-x+4}{3}$$

(4) 
$$\frac{-x-3}{6} = \frac{x-5}{5}$$

(5) 
$$\frac{-x-3}{5} = \frac{4x-1}{6}$$

(6) 
$$\frac{-x+3}{2} = \frac{3x-6}{8}$$

(7) 
$$\frac{x-9}{15} = \frac{-x+2}{3}$$

(8) 
$$\frac{3x-9}{2} = \frac{-x-4}{3}$$

(9) 
$$\frac{-2x+3}{6} = \frac{-x-2}{8}$$

(10) 
$$\frac{4x-1}{9} = \frac{x-2}{6}$$

(11) 
$$\frac{4x-10}{5} = \frac{-x+9}{2}$$

(12) 
$$\frac{-x-6}{2} = \frac{3x-6}{8}$$

## 5. 1次方程式（分母を払う） その5

$$(1) \frac{2x+6}{5} = \frac{x+10}{4}$$

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

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

$$(4) \frac{3x+4}{15} = \frac{x-4}{3}$$

$$(5) \frac{-x+7}{4} = \frac{-2x-4}{5}$$

$$(6) \frac{3x+10}{4} = \frac{2x+3}{6}$$

$$(7) \frac{-x-5}{5} = \frac{2x+10}{9}$$

$$(8) \frac{-2x-3}{6} = \frac{2x-5}{9}$$

$$(9) \frac{3x+7}{9} = \frac{x-1}{2}$$

$$(10) \frac{x-5}{3} = \frac{-2x-9}{2}$$

$$(11) \frac{2x-7}{6} = \frac{-2x-7}{8}$$

$$(12) \frac{-2x-3}{2} = \frac{x-4}{3}$$

## 6. 1次方程式（分母を払う） その6

$$(1) \frac{-x+5}{3} = \frac{4x-1}{2}$$

$$(2) \frac{-2x-3}{6} = \frac{x-4}{2}$$

$$(3) \frac{4x-5}{6} = \frac{2x-9}{8}$$

$$(4) \frac{x-4}{2} = \frac{-2x-7}{6}$$

$$(5) \frac{2x+7}{6} = \frac{2x-3}{12}$$

$$(6) \frac{x-8}{3} = \frac{x+10}{9}$$

$$(7) \frac{3x-5}{4} = \frac{3x+2}{12}$$

$$(8) \frac{x+4}{6} = \frac{-x+5}{4}$$

$$(9) \frac{-x-6}{3} = \frac{-x-8}{5}$$

$$(10) \frac{-2x-6}{3} = \frac{4x-3}{5}$$

$$(11) \frac{-2x-9}{6} = \frac{4x-2}{3}$$

$$(12) \frac{3x+1}{8} = \frac{x-2}{4}$$

## 7. 1次方程式（分母を払う） その7

$$(1) \frac{3x+10}{15} = \frac{-x+9}{6}$$

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

$$(3) \frac{4x-6}{9} = \frac{4x-6}{5}$$

$$(4) \frac{-2x+4}{5} = \frac{x+9}{8}$$

$$(5) \frac{3x-1}{9} = \frac{x+2}{12}$$

$$(6) \frac{3x-7}{6} = \frac{4x-10}{5}$$

$$(7) \frac{-2x-9}{2} = \frac{-x-3}{3}$$

$$(8) \frac{x-3}{6} = \frac{-x-5}{6}$$

$$(9) \frac{4x+5}{6} = \frac{x-10}{9}$$

$$(10) \frac{3x+5}{3} = \frac{x-5}{2}$$

$$(11) \frac{-2x-3}{4} = \frac{2x-5}{9}$$

$$(12) \frac{3x+4}{15} = \frac{3x-10}{8}$$

## 8. 1次方程式（分母を払う） その8

$$(1) \frac{x-1}{12} = \frac{3x+1}{5}$$

$$(2) \frac{x-5}{15} = \frac{x-4}{3}$$

$$(3) \frac{2x+3}{8} = \frac{x+3}{5}$$

$$(4) \frac{2x-8}{9} = \frac{3x-1}{12}$$

$$(5) \frac{2x+9}{2} = \frac{x-2}{6}$$

$$(6) \frac{4x+9}{9} = \frac{-x+4}{3}$$

$$(7) \frac{2x-3}{12} = \frac{-2x-3}{6}$$

$$(8) \frac{-x+7}{15} = \frac{2x+5}{6}$$

$$(9) \frac{2x-2}{3} = \frac{-x+1}{8}$$

$$(10) \frac{x-2}{3} = \frac{4x+9}{6}$$

$$(11) \frac{-x-1}{15} = \frac{x-3}{12}$$

$$(12) \frac{x-3}{2} = \frac{3x-10}{12}$$



**9. 1次方程式（分母を払う） その9**

(1) 
$$\frac{x+1}{15} = \frac{3x-10}{6}$$

(2) 
$$\frac{-x+9}{4} = \frac{2x+8}{5}$$

(3) 
$$\frac{4x+10}{9} = \frac{2x-3}{3}$$

(4) 
$$\frac{2x-3}{4} = \frac{x-7}{4}$$

(5) 
$$\frac{-x-9}{8} = \frac{-x-2}{3}$$

(6) 
$$\frac{4x-10}{15} = \frac{x-10}{12}$$

(7) 
$$\frac{x-1}{3} = \frac{3x+8}{5}$$

(8) 
$$\frac{4x+5}{6} = \frac{x+5}{2}$$

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

(10) 
$$\frac{x-1}{3} = \frac{x+4}{2}$$

(11) 
$$\frac{x-5}{9} = \frac{-x-4}{5}$$

(12) 
$$\frac{3x+5}{8} = \frac{x+3}{9}$$

## 10. 1次方程式（分母を払う） その10

$$(1) \frac{-x+10}{3} = \frac{3x+10}{4}$$

$$(2) \frac{x+1}{9} = \frac{-2x-3}{3}$$

$$(3) \frac{2x+3}{3} = \frac{4x+2}{9}$$

$$(4) \frac{2x-8}{9} = \frac{4x-1}{4}$$

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

$$(6) \frac{x+4}{4} = \frac{-x-1}{3}$$

$$(7) \frac{4x+5}{2} = \frac{2x+9}{9}$$

$$(8) \frac{x-1}{6} = \frac{x-3}{4}$$

$$(9) \frac{-x-2}{4} = \frac{-2x-10}{9}$$

$$(10) \frac{3x+10}{4} = \frac{-x-6}{8}$$

$$(11) \frac{3x-10}{8} = \frac{-x-3}{6}$$

$$(12) \frac{x+1}{6} = \frac{-x-4}{3}$$