



ROVNICE SO ZLOMKAMI

1.1)

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

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

$$\text{c) } 6x + 2 = \frac{5}{2}$$

$$\text{d) } 2(-6x-2) = 1$$

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

$$\text{f) } \frac{3(4x+6)}{10} = \frac{10}{7}$$

$$\text{g) } -\frac{-4x+4}{5} = \frac{13}{6}$$

$$\text{h) } -\frac{5x-9}{5} = \frac{15}{4}$$

$$\text{i) } 8x + 8 = 2$$

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

$$R \quad : \quad \text{a) } x = \frac{11}{12}$$

$$\text{b) } x = \frac{59}{45}$$

$$\text{c) } x = \frac{1}{12}$$

$$\text{d) } x = \frac{-5}{12}$$

$$\text{e) } x = \frac{-19}{12}$$

$$\text{f) } x = \frac{-13}{42}$$

$$\text{g) } x = \frac{89}{24}$$

$$\text{h) } x = \frac{-39}{20}$$

$$\text{i) } x = \frac{-3}{4}$$

$$\text{j) } x = \frac{7}{15}$$

1.2)

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

$$\text{b) } \frac{7(-5x-2)}{4} = \frac{15}{8}$$

$$\text{c) } -\frac{2(-4x-5)}{9} = -\frac{4}{5}$$

$$\text{d) } -\frac{-6x+6}{4} = 2$$

$$\text{e) } -\frac{2(-x-6)}{3} = \frac{19}{6}$$

$$\text{f) } -\frac{-7x-1}{2} = \frac{3}{5}$$

$$\text{g) } -\frac{-3x+7}{2} = \frac{19}{2}$$

$$\text{h) } \frac{3(5x+7)}{5} = \frac{13}{5}$$

$$\text{i) } -\frac{-2x-4}{4} = \frac{5}{3}$$

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



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$$R \quad : \quad \begin{array}{llll} \text{a)} & x = \frac{7}{54} & \text{b)} & x = \frac{-43}{70} \\ \text{c)} & x = \frac{-43}{20} & \text{d)} & x = \frac{7}{3} \\ \text{e)} & x = \frac{-5}{4} & \text{f)} & x = \frac{1}{35} \\ \text{g)} & x = \frac{26}{3} & \text{h)} & x = \frac{-8}{15} \\ \text{i)} & x = \frac{4}{3} & \text{j)} & x = \frac{20}{7} \end{array}$$

1.3)

$$\text{a)} \quad -\frac{x+4}{2} = \frac{17}{8} \qquad \text{b)} \quad -3(4x-3) = \frac{1}{5}$$

$$\text{c)} \quad -\frac{7(-6x-4)}{4} = \frac{11}{5} \qquad \text{d)} \quad \frac{8x}{9} = 4$$

$$\text{e)} \quad -\frac{3(3x+8)}{5} = \frac{1}{5} \qquad \text{f)} \quad \frac{7x+4}{2} = \frac{9}{5}$$

$$\text{g)} \quad 4x+5 = \frac{7}{4} \qquad \text{h)} \quad -\frac{2x+7}{2} = -\frac{1}{8}$$

$$\text{i)} \quad -\frac{3(x-8)}{8} = \frac{5}{8} \qquad \text{j)} \quad -\frac{2(-6x-4)}{3} = \frac{17}{3}$$

$$R \quad : \quad \begin{array}{llll} \text{a)} & x = \frac{-33}{4} & \text{b)} & x = \frac{11}{15} \\ \text{c)} & x = \frac{-16}{35} & \text{d)} & x = \frac{9}{2} \\ \text{e)} & x = \frac{-25}{9} & \text{f)} & x = \frac{-2}{35} \\ \text{g)} & x = \frac{-13}{16} & \text{h)} & x = \frac{-27}{8} \\ \text{i)} & x = \frac{19}{3} & \text{j)} & x = \frac{3}{4} \end{array}$$



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1.4)

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

b) $\frac{-3x+3}{5} = \frac{13}{5}$

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

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

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

f) $-2(-7x+8) = \frac{8}{9}$

g) $\frac{5x}{4} = \frac{3}{2}$

h) $-\frac{2(4x+6)}{3} = 1$

i) $4x+4 = \frac{1}{4}$

j) $-\frac{5x+8}{4} = \frac{3}{2}$

R : a) $x = \frac{21}{5}$

b) $x = \frac{-10}{3}$

c) $x = \frac{59}{16}$

d) $x = \frac{-31}{18}$

e) $x = \frac{27}{40}$

f) $x = \frac{76}{63}$

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

h) $x = \frac{-15}{8}$

i) $x = \frac{-15}{16}$

j) $x = \frac{-14}{5}$

1.5)

a) $\frac{5(8x+4)}{3} = 2$

b) $-\frac{8(7x-2)}{9} = \frac{11}{3}$

c) $-\frac{4(6x-7)}{9} = \frac{11}{3}$

d) $-2(-4x-6) = 2$

e) $\frac{2(-5x+4)}{9} = -\frac{11}{7}$

f) $-\frac{5x-9}{3} = \frac{4}{7}$

g) $-\frac{7(4x-4)}{8} = \frac{2}{3}$

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

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

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


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$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{-7}{20} & \text{b)} \ x = \frac{-17}{56} & \text{c)} \ x = \frac{-5}{24} & \text{d)} \ x = \frac{-5}{4} \\ \text{e)} \ x = \frac{31}{14} & \text{f)} \ x = \frac{51}{35} & \text{g)} \ x = \frac{17}{21} & \text{h)} \ x = \frac{-22}{15} \\ \text{i)} \ x = \frac{-11}{12} & \text{j)} \ x = \frac{-7}{16} & & \end{array}$$

1.6)

$$\begin{array}{ll} \text{a)} \ -\frac{3(x+2)}{4} = 2 & \text{b)} \ -\frac{3x+7}{5} = 8 \\ \text{c)} \ -\frac{7(6x-5)}{2} = \frac{7}{2} & \text{d)} \ \frac{3(-6x-6)}{4} = \frac{3}{4} \\ \text{e)} \ \frac{5(-2x-2)}{8} = \frac{1}{3} & \text{f)} \ \frac{6x+9}{3} = -\frac{11}{9} \\ \text{g)} \ \frac{7x+7}{9} = -\frac{2}{9} & \text{h)} \ -\frac{6x+4}{4} = \frac{3}{5} \\ \text{i)} \ -\frac{x-4}{8} = \frac{3}{4} & \text{j)} \ 6x+3 = 2 \end{array}$$

$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{-14}{3} & \text{b)} \ x = \frac{-47}{3} & \text{c)} \ x = \frac{2}{3} & \text{d)} \ x = \frac{-7}{6} \\ \text{e)} \ x = \frac{-19}{15} & \text{f)} \ x = \frac{-19}{9} & \text{g)} \ x = \frac{-9}{7} & \text{h)} \ x = \frac{-16}{15} \\ \text{i)} \ x = -2 & \text{j)} \ x = \frac{-1}{6} & & \end{array}$$



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1.7)

a) $\frac{7}{6} - \frac{5(x+4)}{4} = \frac{7x}{4}$

b) $\frac{16}{3} + \frac{6x+6}{3} = -\frac{4(-3x+3)}{5}$

c) $\frac{5}{6} + \frac{7x+4}{2} = -\frac{-3x+6}{2}$

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

e) $-\frac{1}{2} + \frac{3(-6x-7)}{5} = \frac{6}{3}$

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

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

h) $\frac{9}{2} - \frac{4x+7}{9} = -\frac{7(5x-1)}{6}$

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

j) $\frac{3}{4} + \frac{7(2x+5)}{6} = -\frac{4x+1}{6}$

R : a) $x = \frac{-23}{18}$ b) $x = \frac{73}{3}$

e) $x = \frac{-67}{36}$ f) $x = \frac{82}{21}$

i) $x = \frac{-45}{17}$ j) $x = \frac{-9}{4}$

c) $x = \frac{-35}{12}$ d) $x = \frac{45}{28}$

g) $x = \frac{-1}{5}$ h) $x = \frac{-46}{97}$

1.8)

a) $\frac{16}{3} + \frac{7x-3}{2} = 6x+5$

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

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

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

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

f) $\frac{15}{7} + \frac{-6x}{3} = -2(-3x+2)$

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

h) $7 - \frac{4x-1}{2} = \frac{-3x+1}{8}$

i) $\frac{13}{2} - \frac{4(-2x+1)}{9} = -\frac{-4x+1}{6}$

j) $-1 - \frac{-8x-6}{3} = -\frac{5(-x-5)}{9}$



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$$R \quad : \quad \begin{array}{ll} \text{a) } x = \frac{-7}{15} & \text{b) } x = \frac{9}{14} \\ \text{c) } x = \frac{-37}{54} & \text{d) } x = \frac{-33}{29} \\ \text{e) } x = \frac{-89}{97} & \text{f) } x = \frac{43}{56} \\ \text{g) } x = \frac{-15}{8} & \text{h) } x = \frac{59}{13} \\ \text{i) } x = -28 & \text{j) } x = \frac{16}{19} \end{array}$$

1.9)

$$\begin{array}{ll} \text{a) } 3 + \frac{-4x}{5} = -\frac{-3x+4}{2} & \text{b) } 9 + \frac{5(6x+3)}{4} = \frac{4x}{8} \\ \text{c) } \frac{15}{8} + 3x + 2 = \frac{-6x+7}{2} & \text{d) } \frac{5}{9} - \frac{-x+1}{3} = -\frac{2(5x+6)}{3} \\ \text{e) } 2 + 4x + 3 = \frac{5(3x+7)}{2} & \text{f) } 2 - 2(-2x-8) = -\frac{4(-3x-4)}{5} \\ \text{g) } \frac{5}{2} - \frac{-3x-1}{2} = -\frac{-3x-1}{3} & \text{h) } \frac{3}{7} + \frac{4(-5x-4)}{7} = -\frac{3x+6}{2} \\ \text{i) } -\frac{11}{3} + 8x + 5 = -\frac{4x-8}{9} & \text{j) } -\frac{4}{7} + \frac{2(-3x-2)}{5} = -\frac{4(-5x-1)}{5} \end{array}$$

$$R \quad : \quad \begin{array}{ll} \text{a) } x = \frac{50}{23} & \text{b) } x = \frac{-51}{28} \\ \text{c) } x = \frac{-1}{16} & \text{d) } x = \frac{-38}{33} \\ \text{e) } x = \frac{-25}{7} & \text{f) } x = \frac{-37}{4} \\ \text{g) } x = \frac{-16}{3} & \text{h) } x = \frac{16}{19} \\ \text{i) } x = \frac{-1}{19} & \text{j) } x = \frac{-38}{91} \end{array}$$



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1.10)

$$\text{a) } \frac{11}{6} + 5x + 5 = \frac{5(8x + 2)}{4}$$

$$\text{b) } \frac{3}{2} + 6x + 2 = \frac{-6x}{4}$$

$$\text{c) } \frac{3}{2} - \frac{3x - 3}{10} = -\frac{7x + 2}{3}$$

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

$$\text{e) } \frac{7}{9} - \frac{7(-3x - 2)}{9} = -\frac{-x + 7}{4}$$

$$\text{f) } \frac{17}{4} + 6x + 2 = \frac{7(3x - 1)}{6}$$

$$\text{g) } \frac{11}{3} + 2(-2x - 7) = -\frac{5(-6x - 5)}{9}$$

$$\text{h) } \frac{11}{6} + \frac{5(-2x + 2)}{9} = \frac{-6x}{6}$$

$$\text{i) } \frac{13}{3} - \frac{7(-4x + 2)}{5} = -\frac{2(-7x - 4)}{3}$$

$$\text{j) } \frac{3}{2} - \frac{4(-x + 9)}{7} = \frac{-4x + 1}{2}$$

$$R \quad : \quad \text{a) } x = \frac{13}{15}$$

$$\text{b) } x = \frac{-7}{15}$$

$$\text{c) } x = \frac{-74}{61}$$

$$\text{d) } x = \frac{-31}{16}$$

$$\text{e) } x = \frac{-49}{25}$$

$$\text{f) } x = \frac{-89}{30}$$

$$\text{g) } x = \frac{-59}{33}$$

$$\text{h) } x = \frac{53}{2}$$

$$\text{i) } x = \frac{17}{14}$$

$$\text{j) } x = \frac{29}{18}$$

1.11)

$$\text{a) } -\frac{7}{5} + 7x + 2 = \frac{-3x - 5}{2}$$

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

$$\text{c) } \frac{17}{2} + 2(x + 1) = \frac{-7x}{4}$$

$$\text{d) } \frac{5}{3} + \frac{-2}{6} = -\frac{2(-5x + 5)}{3}$$

$$\text{e) } \frac{17}{10} + 6x + 4 = -\frac{3(7x + 9)}{2}$$

$$\text{f) } \frac{16}{9} - \frac{x - 4}{3} = -\frac{4(x + 7)}{9}$$

$$\text{g) } \frac{13}{5} - \frac{6(7x - 3)}{5} = x + 6$$

$$\text{h) } \frac{12}{7} + \frac{-8}{6} = -\frac{2(5x - 1)}{3}$$

$$\text{i) } \frac{1}{3} - \frac{5(-6x + 3)}{9} = \frac{-2x}{3}$$

$$\text{j) } -\frac{13}{4} - \frac{7(-2x + 4)}{6} = -\frac{3(3x + 6)}{4}$$



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$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{-31}{85} & \text{b)} \ x = \frac{-75}{64} & \text{c)} \ x = \frac{-14}{5} & \text{d)} \ x = \frac{7}{5} \\ \text{e)} \ x = \frac{-64}{55} & \text{f)} \ x = -56 & \text{g)} \ x = \frac{1}{47} & \text{h)} \ x = \frac{3}{35} \\ \text{i)} \ x = \frac{1}{3} & \text{j)} \ x = \frac{41}{55} & & \end{array}$$

1.12)

$$\begin{array}{ll} \text{a)} \ \frac{17}{8} - 3(-6x + 3) = -\frac{5(3x - 8)}{4} & \text{b)} \ 3 + 2(-4x + 8) = -\frac{7(-5x + 6)}{2} \\ \text{c)} \ 4 + \frac{7(-4x - 7)}{8} = 4x + 1 & \text{d)} \ 1 + \frac{8(-4x - 5)}{3} = \frac{5(-x + 3)}{7} \\ \text{e)} \ 2 - \frac{2(-4x - 9)}{3} = 2x + 4 & \text{f)} \ \frac{5}{3} + \frac{5}{6} = 3(-4x - 6) \\ \text{g)} \ \frac{9}{7} - \frac{-3x + 7}{5} = -\frac{8(6x + 3)}{7} & \text{h)} \ -\frac{4}{3} - \frac{2(3x + 8)}{3} = \frac{8(-6x + 7)}{9} \\ \text{i)} \ \frac{9}{2} - \frac{2(3x - 3)}{3} = \frac{-7}{5} & \text{j)} \ \frac{1}{2} - \frac{2x + 7}{5} = -\frac{3x - 6}{8} \end{array}$$

$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{45}{58} & \text{b)} \ x = \frac{80}{51} & \text{c)} \ x = \frac{-5}{12} & \text{d)} \ x = \frac{-16}{11} \\ \text{e)} \ x = -6 & \text{f)} \ x = \frac{-41}{24} & \text{g)} \ x = \frac{-4}{9} & \text{h)} \ x = \frac{58}{15} \\ \text{i)} \ x = \frac{79}{20} & \text{j)} \ x = -66 & & \end{array}$$



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1.13)

$$\text{a) } \frac{15}{4} - \frac{4(-6x+7)}{3} = -\frac{-4x-2}{3}$$

$$\text{b) } \frac{1}{3} - 2(2x+9) = -\frac{4x+9}{6}$$

$$\text{c) } \frac{5}{9} - \frac{4(3x-5)}{7} = -\frac{2(6x-7)}{9}$$

$$\text{d) } \frac{13}{10} - \frac{2x+8}{2} = -\frac{7x+8}{2}$$

$$\text{e) } \frac{1}{2} - \frac{8(-7x+2)}{3} = \frac{4(6x+1)}{3}$$

$$\text{f) } -\frac{15}{7} + x + 1 = 6x + 1$$

$$\text{g) } 6 + \frac{7(5x+4)}{10} = -\frac{2(8x+6)}{9}$$

$$\text{h) } \frac{7}{3} + \frac{3x}{9} = -\frac{4(8x-7)}{3}$$

$$\text{i) } -\frac{13}{6} + \frac{-2x+1}{5} = -\frac{7(-x+4)}{6}$$

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

$$R \quad : \quad \text{a) } x = \frac{15}{16}$$

$$\text{b) } x = \frac{-97}{20}$$

$$\text{c) } x = \frac{39}{8}$$

$$\text{d) } x = \frac{-13}{25}$$

$$\text{e) } x = \frac{37}{64}$$

$$\text{f) } x = \frac{-3}{7}$$

$$\text{g) } x = \frac{-48}{25}$$

$$\text{h) } x = \frac{7}{11}$$

$$\text{i) } x = \frac{81}{47}$$

$$\text{j) } x = \frac{-64}{9}$$

1.14)

$$\text{a) } \frac{10}{7} - \frac{7x+8}{3} = -\frac{6}{7} - \frac{4(-x+4)}{7}$$

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

$$\text{c) } -\frac{17}{5} + \frac{6(7x+9)}{5} = \frac{2}{5} + \frac{-x}{5}$$

$$\text{d) } 2 + \frac{8(7x+8)}{5} = -7 - 2(-7x+1)$$

$$\text{e) } \frac{14}{5} + \frac{2(-2x-5)}{5} = \frac{8}{3} + \frac{-2}{4}$$

$$\text{f) } 1 + \frac{x+5}{4} = \frac{3}{2} - \frac{2(8x-7)}{7}$$

$$\text{g) } \frac{7}{9} + 2x + 8 = \frac{4}{3} + \frac{5(2x+3)}{9}$$

$$\text{h) } 3 + \frac{6(6x+2)}{7} = 2 - \frac{5(-4x-3)}{2}$$

$$\text{i) } 1 - \frac{4(3x-1)}{3} = \frac{9}{2} + \frac{-7x-1}{5}$$

$$\text{j) } \frac{13}{10} + \frac{6}{5} = \frac{1}{2} - \frac{3(4x-1)}{4}$$



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$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{40}{61} & \text{b)} \ x = \frac{-59}{12} & \text{c)} \ x = \frac{-35}{43} & \text{d)} \ x = \frac{17}{2} \\ \text{e)} \ x = \frac{-41}{24} & \text{f)} \ x = \frac{35}{71} & \text{g)} \ x = \frac{-13}{2} & \text{h)} \ x = \frac{-67}{68} \\ \text{i)} \ x = \frac{-59}{78} & \text{j)} \ x = \frac{-5}{12} & & \end{array}$$

1.15)

$$\begin{array}{ll} \text{a)} \ \frac{18}{5} - \frac{2(-4x+8)}{3} = 2 + \frac{4(-4x+7)}{3} & \text{b)} \ -3 + x + 9 = \frac{13}{2} - \frac{3(5x+9)}{4} \\ \text{c)} \ \frac{3}{2} + \frac{-7}{9} = \frac{4}{5} - \frac{7(8x+6)}{9} & \text{d)} \ \frac{4}{3} - \frac{2(-3x-3)}{5} = \frac{7}{5} + 2x + 3 \\ \text{e)} \ \frac{14}{5} + \frac{4x+8}{3} = \frac{6}{5} + 4x + 5 & \text{f)} \ -\frac{1}{3} + \frac{-x}{6} = \frac{1}{2} + 2(-6x-7) \\ \text{g)} \ \frac{1}{4} - \frac{5x+7}{3} = \frac{1}{2} - \frac{2(5x+3)}{3} & \text{h)} \ \frac{8}{3} - \frac{2(-5x-2)}{9} = \frac{1}{2} + \frac{5x+7}{3} \\ \text{i)} \ \frac{4}{3} + \frac{x-6}{8} = \frac{1}{2} - \frac{3(x-4)}{4} & \text{j)} \ 1 + \frac{8}{3} = \frac{14}{9} + 4(2x+1) \end{array}$$

$$R \quad : \quad \begin{array}{llll} \text{a)} \ x = \frac{49}{30} & \text{b)} \ x = \frac{-25}{19} & \text{c)} \ x = \frac{-59}{80} & \text{d)} \ x = \frac{-7}{3} \\ \text{e)} \ x = \frac{-11}{40} & \text{f)} \ x = \frac{-79}{71} & \text{g)} \ x = \frac{7}{20} & \text{h)} \ x = \frac{1}{2} \\ \text{i)} \ x = \frac{10}{3} & \text{j)} \ x = \frac{-17}{72} & & \end{array}$$



ROVNICE SO ZLOMKAMI

1.16)

$$\text{a) } -\frac{13}{4} + \frac{3(3x-8)}{2} = \frac{1}{4} + \frac{-x+2}{2}$$

$$\text{b) } 3 - \frac{3(7x+7)}{7} = \frac{4}{3} - \frac{8(x-1)}{9}$$

$$\text{c) } -\frac{3}{2} - \frac{5(-7x+6)}{6} = -\frac{1}{4} + \frac{4(6x-2)}{3}$$

$$\text{d) } -\frac{9}{2} - \frac{8(-3x-8)}{7} = \frac{12}{7} - \frac{-7x-4}{6}$$

$$\text{e) } 2 + \frac{5(-8x+2)}{4} = \frac{17}{7} - \frac{7x-2}{2}$$

$$\text{f) } \frac{8}{3} - \frac{2(-2x-9)}{7} = -\frac{16}{3} + \frac{-6x+4}{3}$$

$$\text{g) } 2 - \frac{-3x+6}{2} = \frac{13}{4} - \frac{2(5x-6)}{3}$$

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

$$\text{i) } 3 + \frac{7(8x+6)}{3} = 1 + \frac{4x}{7}$$

$$\text{j) } -\frac{5}{4} + 6x + 1 = \frac{1}{5} - \frac{-7x+5}{2}$$

$$R \quad : \quad \text{a) } x = \frac{33}{10}$$

$$\text{b) } x = \frac{-20}{19}$$

$$\text{c) } x = \frac{-43}{26}$$

$$\text{d) } x = -1$$

$$\text{e) } x = \frac{15}{91}$$

$$\text{f) } x = \frac{-97}{27}$$

$$\text{g) } x = \frac{99}{58}$$

$$\text{h) } x = \frac{68}{91}$$

$$\text{i) } x = \frac{-84}{95}$$

$$\text{j) } x = \frac{-41}{50}$$

1.17)

$$\text{a) } \frac{19}{9} + \frac{-5}{5} = \frac{7}{6} - \frac{3(-x-1)}{5}$$

$$\text{b) } 9 + 4x + 1 = \frac{7}{3} + 8x + 5$$

$$\text{c) } -\frac{1}{2} - \frac{7x+1}{4} = \frac{19}{3} + \frac{3(7x-3)}{4}$$

$$\text{d) } \frac{10}{3} - \frac{5(-x+2)}{6} = 4 - \frac{5(-3x+7)}{9}$$

$$\text{e) } \frac{9}{2} - \frac{-5x-1}{5} = 3 - \frac{4x+4}{4}$$

$$\text{f) } -\frac{2}{3} - \frac{3(-6x+7)}{2} = \frac{8}{3} - \frac{5(-x+7)}{3}$$

$$\text{g) } \frac{9}{10} + 6x + 7 = \frac{19}{3} - \frac{2(3x+8)}{3}$$

$$\text{h) } \frac{19}{4} + 2(5x-8) = -\frac{1}{2} + \frac{-6}{6}$$

$$\text{i) } \frac{13}{4} - \frac{7(-7x+7)}{9} = \frac{1}{9} - \frac{7(-x+8)}{6}$$

$$\text{j) } \frac{1}{4} + \frac{-x+6}{2} = \frac{1}{7} - \frac{6x-6}{2}$$



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$$R \quad : \quad \begin{array}{ll} \text{a) } x = \frac{-59}{54} & \text{b) } x = \frac{2}{3} \\ \text{c) } x = \frac{-29}{42} & \text{d) } x = \frac{28}{15} \\ \text{e) } x = \frac{-27}{20} & \text{f) } x = \frac{13}{44} \\ \text{g) } x = \frac{-69}{80} & \text{h) } x = \frac{39}{40} \\ \text{i) } x = \frac{-23}{14} & \text{j) } x = \frac{-3}{70} \end{array}$$

1.18)

$$\begin{array}{ll} \text{a) } 1 + \frac{5x}{4} = 1 - \frac{3(-8x+3)}{10} & \text{b) } \frac{9}{4} - \frac{3(-7x-7)}{4} = \frac{13}{7} - \frac{-3x+2}{2} \\ \text{c) } \frac{9}{8} + \frac{2x+5}{8} = \frac{13}{9} - \frac{-3x+8}{9} & \text{d) } -\frac{12}{5} + \frac{7}{5} = \frac{8}{7} - \frac{-4x+7}{2} \\ \text{e) } -3 + 3x + 1 = -\frac{7}{6} + 2x + 2 & \text{f) } \frac{1}{7} - \frac{7(4x+7)}{3} = \frac{1}{7} + \frac{7(-3x-7)}{3} \\ \text{g) } \frac{17}{4} + \frac{-x}{7} = \frac{13}{2} + \frac{-9}{2} & \text{h) } -\frac{2}{3} - \frac{6(-x-4)}{5} = \frac{7}{3} + \frac{2(6x-1)}{5} \\ \text{i) } \frac{11}{9} + \frac{7x}{8} = 2 - \frac{2(3x-1)}{9} & \text{j) } 1 + \frac{-x-8}{10} = \frac{4}{3} - \frac{2(-x+5)}{3} \end{array}$$

$$R \quad : \quad \begin{array}{ll} \text{a) } x = \frac{18}{23} & \text{b) } x = \frac{-62}{35} \\ \text{c) } x = \frac{43}{3} & \text{d) } x = \frac{19}{28} \\ \text{e) } x = \frac{17}{6} & \text{f) } x = 0 \\ \text{g) } x = \frac{63}{4} & \text{h) } x = \frac{11}{6} \\ \text{i) } x = \frac{24}{37} & \text{j) } x = \frac{66}{23} \end{array}$$



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1.19)

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

$$\text{b) } 1 + x + 6 = \frac{7}{8} - \frac{3(x-8)}{4}$$

$$\text{c) } \frac{14}{3} + \frac{-x+2}{2} = \frac{11}{5} + \frac{5x+3}{5}$$

$$\text{d) } 2 - \frac{3(3x+7)}{4} = \frac{5}{2} + \frac{8x+9}{8}$$

$$\text{e) } \frac{13}{6} + \frac{-5x-3}{8} = \frac{4}{3} + \frac{-4}{2}$$

$$\text{f) } \frac{13}{9} - \frac{3(-8x+5)}{5} = \frac{4}{9} + x + 5$$

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

$$\text{h) } \frac{10}{7} - \frac{4(2x-2)}{7} = -1 - \frac{-6x-4}{2}$$

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

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

$$R \quad : \quad \text{a) } x = \frac{-18}{95}$$

$$\text{b) } x = \frac{-1}{14}$$

$$\text{c) } x = \frac{86}{45}$$

$$\text{d) } x = \frac{-55}{26}$$

$$\text{e) } x = \frac{59}{15}$$

$$\text{f) } x = \frac{35}{19}$$

$$\text{g) } x = \frac{-41}{22}$$

$$\text{h) } x = \frac{11}{29}$$

$$\text{i) } x = \frac{-3}{8}$$

$$\text{j) } x = \frac{-41}{72}$$

1.20)

$$\text{a) } \frac{9}{2} - \frac{-x-3}{3} = 5 - \frac{5x-5}{3}$$

$$\text{b) } \frac{7}{3} - 3(-2x-5) = \frac{4}{3} - \frac{7(5x-6)}{3}$$

$$\text{c) } \frac{17}{4} - \frac{6(-5x-8)}{5} = \frac{5}{4} - \frac{-6x+6}{6}$$

$$\text{d) } \frac{4}{5} - \frac{7(-4x-6)}{9} = 3 + \frac{2(5x+5)}{9}$$

$$\text{e) } \frac{5}{6} + \frac{2(-6x-5)}{3} = \frac{1}{2} + \frac{2}{5}$$

$$\text{f) } -\frac{5}{2} - \frac{-3x+7}{4} = -\frac{5}{3} + \frac{8(-2x+4)}{9}$$

$$\text{g) } -6 + \frac{-7x-1}{7} = \frac{16}{7} - \frac{4(-4x+6)}{7}$$

$$\text{h) } -\frac{3}{7} - \frac{7(4x-1)}{2} = \frac{9}{2} + \frac{3(8x+4)}{7}$$

$$\text{i) } \frac{5}{2} - \frac{5(7x-1)}{3} = \frac{17}{6} + \frac{4(-7x+7)}{3}$$

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



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$$R \quad : \quad \begin{array}{llll} \mathbf{a)} \quad x = \frac{7}{12} & \mathbf{b)} \quad x = \frac{-6}{53} & \mathbf{c)} \quad x = \frac{-68}{25} & \mathbf{d)} \quad x = \frac{-61}{90} \\ \mathbf{e)} \quad x = \frac{-17}{20} & \mathbf{f)} \quad x = \frac{17}{7} & \mathbf{g)} \quad x = \frac{-35}{23} & \mathbf{h)} \quad x = \frac{-11}{61} \\ \mathbf{i)} \quad x = \frac{-24}{7} & \mathbf{j)} \quad x = \frac{37}{12} & & \end{array}$$