

3 Rovnice

Rovnice (lineární) mohou mít

- a) 1 řešení (vyjde např. $x = 3$),
 b) žádné řešení (vyjde např. $0 = 3$, $0x = 3$ neplatí),
 c) nekonečně mnoho řešení (vyjde např. $0 = 0$, $8 = 8$, $0x = 0$ platí)

① Řešte rovnici a proveďte zkoušku (v záznamovém archu uveďte celý postup řešení):

$$2 \cdot \frac{x+1}{4} - x = \frac{x-1}{3}$$

$$\frac{x+1}{2} - x = \frac{x-1}{3} \quad | \cdot 6$$

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

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

$$\begin{array}{r} -3x+3 = 2x-2 \\ \underline{-2x-3} \\ -3x-2x = -2-3 \end{array}$$

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

$$-5x = -5 \quad | :(-5)$$

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

$$x = 1$$

Zkouška:

$$L = 2 \cdot \frac{1+1}{4} - 1 = \frac{2}{2} - 1 = 1 - 1 = 0$$

$$P = \frac{1-1}{3} = \frac{0}{3} = 0 \quad \left[\frac{0}{3} = 0! \right]$$

$$L = P$$

↓ mbo

$$\begin{array}{r} -3x+3 = 2x-2 \\ \underline{+3x+2} \\ -3x+3 = 2x-2 \\ \underline{-2x-2} \\ 5 = 5x \end{array}$$

$$5 = 5x \quad | :5$$

$$1 = x$$

$$x = 1$$

mbo

$$2 \cdot \frac{x+1}{4} - x = \frac{x-1}{3}$$

$$\frac{2}{4} \cdot \frac{x+1}{4} - x = \frac{x-1}{3}$$

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

realit \rightarrow 1. xpr.
JINAK
1.12

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

$$6x+6-12 = 4x-4$$

$$6x-6 = 4x-4 \quad | :2$$

$$3x-3 = 2x-2 \quad \text{dáv 1. xpr.}$$

$$\begin{array}{r} 6x-6 = 4x-4 \\ \underline{-4x+6} \\ 6x-6 = 4x-4 \\ \underline{-4x+6} \\ 2x = 2 \end{array}$$

$$2x = 2 \quad | :2$$

$$x = 1$$

POZOR!

$$\left[\begin{array}{l} 2 \cdot \frac{x+4}{4} - x = \frac{x-1}{3} \quad | \cdot 12 \\ \textcircled{12} 2 \cdot 3(x+4) - 12 = 4(x-1) \\ \text{NE proto dál neklomik} \end{array} \right]$$

② Řešte rovnici (v záznamovém archu uveďte celý postup řešení, zkoušku nezapisujte):

a)

$$-\frac{2}{3} \cdot \frac{x}{2} = \frac{5}{12}$$

upravil
KRÁTK

$$-\frac{x}{3} = \frac{5}{12} \quad | \cdot 12$$

$$-4x = 5 \quad | :(-4)$$

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

požad. hled. nás. 12

$$-\frac{2}{3} \cdot \frac{x}{2} = \frac{5}{12} \quad | \cdot 12$$

$$-12 \cdot \frac{2}{3} \cdot \frac{x}{2} = \frac{5}{12} \cdot \frac{12}{1} \quad \text{KRÁTK}$$

$$-12 \cdot \frac{2}{3} \cdot \frac{x}{2} = 5$$

$$-4x = 5$$

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

POZOR! CHYBNĚ!

$$-\frac{2}{3} \cdot \frac{x}{2} = \frac{5}{12} \quad | \cdot 12$$

$$\left[-\frac{12 \cdot 2}{3} \cdot \frac{12x}{2} = 5 \right]$$

$$-8 \cdot 6x = 5$$

b)

$$2 \cdot \frac{5x}{6} - \frac{1}{3} = x - \frac{1}{2} \quad \text{upravení KRÁTIT}$$

$$\frac{5x}{3} - \frac{1}{3} = x - \frac{1}{2} \quad | \cdot 6$$

$$2 \cdot 5x - 2 = 6x - 3$$

$$10x - 2 = 6x - 3 \quad | -6x + 2$$

$$10x - 6x = -3 + 2$$

$$4x = -1 \quad | :4$$

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

nebo pokud mluvíme

$$\frac{2}{3} \cdot \frac{5x}{6} - \frac{1}{3} = x - \frac{1}{2}$$

$$\frac{10x}{6} - \frac{1}{3} = x - \frac{1}{2} \quad | \cdot 6$$

$$10x - 2 = 6x - 3 \quad \text{stejně}$$

c)

$$4x + 1 = 4 \cdot (4x + 0,25)$$

$$4x + 1 = 16x + 4 \cdot 0,25$$

$$4x + 1 = 16x + 1 \quad | -4x - 1$$

$$0 = 12x \quad | :12$$

$$x = 0 \quad \left[\frac{0}{12} = 0 \right]$$

d)

$$x = 2,5 \cdot x \quad | -x$$

$$0 = 2,5x - x$$

$$0 = 1,5x - 1x$$

$$0 = 0,5x \quad | :0,5 \quad \left[\frac{0}{0,5} = 0 \right]$$

$$0 = x$$

$$x = 0$$

e)

$$5 \cdot 0,4 - 3x : 2 = 0,5x + 7 \quad \frac{5 \cdot 0,4}{2} \quad 3x : 2 = \frac{3x}{2} = \frac{3}{2} \cdot x = 1,5x$$

$$2 - 1,5x = 0,5x + 7 \quad | \cdot 10$$

$$20 - 15x = 5x + 70 \quad | -5x - 20$$

$$-15x - 5x = 70 - 20$$

$$-20x = 50 \quad | :(-1)$$

$$20x = -50 \quad | :20$$

$$x = -\frac{50}{20} = -\frac{5}{2} = (-2,5)$$

f)

$$5 \cdot (0,2x + 1) = (8 - 6x) : 2$$

$$1x + 5 = 4 - 3x \quad | +3x - 5$$

$$4x = -1 \quad | :4$$

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

nebo

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

$$1x + 5 = \frac{8 - 6x}{2} \quad | \cdot 2$$

$$2x + 10 = 8 - 6x \quad | +6x - 10$$

$$8x = -2 \quad | :8$$

$$x = -\frac{2}{8} \quad \text{KRÁTIT}$$

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

③ Řešte rovnici (v záznamovém archu uveďte celý postup řešení, zkoušku nezapíšíte):

a) $\frac{2-x}{2} - 3 = \frac{2x+1}{3}$ 1.6

$$3(2-x) - 18 = 2(2x+1)$$

$$6 - 3x - 18 = 4x + 2$$

$$-3x - 12 = 4x + 2 \quad | -4x + 12$$

$$-7x = 14 \quad | :(-7)$$

$$x = -2$$

$$\left[\begin{array}{l} \text{nebo } -3x - 12 = 4x + 2 \quad | +3x - 2 \\ -14 = 4x \quad | :4 \\ -2 = x \\ x = -2 \end{array} \right]$$

b) $\frac{1-x}{2} = 4 - x + \frac{5x}{3}$ 1.6

$$3(1-x) = 24 - 6x + 10x$$

$$3 - 3x = 24 + 4x \quad | -4x - 3$$

$$-7x = 24 - 3$$

$$-7x = 21 \quad | :(-7)$$

$$x = -3$$

$$3 - 3x = 24 + 4x \quad | +3x - 24$$

$$-21 = 7x \quad | :7$$

$$-3 = x$$

$$x = -3$$

c) $\frac{x-5}{2} + x = \frac{2x}{3} - \frac{5}{6}$ 1.6

$$3(x-5) + 6x = 2 \cdot 2x - 5$$

$$3x - 15 + 6x = 4x - 5$$

$$9x - 15 = 4x - 5 \quad | -4x + 15$$

$$9x - 4x = -5 + 15$$

$$5x = 10 \quad | :5$$

$$x = 2$$

$$\left[\begin{array}{l} \text{nebo } \frac{x-5}{2} + x = \frac{2x}{3} - \frac{5}{6} \\ \frac{x-5+2x}{2} = \frac{4x-5}{6} \\ \frac{3x-5}{2} = \frac{4x-5}{6} \quad | \cdot 6 \\ 3(3x-5) = 4x-5 \\ 9x-15 = 4x-5 \\ (\text{dále m\u00edra 1. xpr.}) \end{array} \right]$$

d) $\frac{x-2}{2} - x = 2 - \frac{2x}{3}$ 1.6

$$3(x-2) - 6x = 12 - 2 \cdot 2x$$

$$3x - 6 - 6x = 12 - 4x$$

$$-6 - 3x = 12 - 4x \quad | +4x + 6$$

$$4x - 3x = 12 + 6$$

$$x = 18$$

e) $y - \frac{1-3y}{2} = \frac{7}{4} + \frac{5y}{3}$ 1.12

$$12y - 6(1-3y) = 3 \cdot 7 + 4 \cdot 5y$$

$$12y - 6 + 18y = 21 + 20y$$

$$30y - 6 = 21 + 20y \quad | -20y + 6$$

$$30y - 20y = 21 + 6$$

$$10y = 27 \quad | :10$$

$$y = \frac{27}{10} (= 2.7)$$

$$\left[\begin{array}{l} \text{nebo } \frac{2y - (1-3y)}{2} = \frac{21 + 20y}{12} \\ \text{Některá čísla nakr\u00e1t\u00edme ro\u00edvn\u00edky} \\ \text{- MUS\u00cdTE JE NAP\u00cdSAT} \\ \frac{2y - 1 + 3y}{2} = \frac{21 + 20y}{12} \\ \frac{5y - 1}{2} = \frac{21 + 20y}{12} \quad | \cdot 12 \\ 6(5y - 1) = 21 + 20y \\ 30y - 6 = 21 + 20y \quad \text{atd.} \end{array} \right]$$

$$f) \quad \frac{3-2y}{3} = \frac{1-2y}{4} + \frac{y+3}{6} \quad | \cdot 12$$

$$4(3-2y) = 3(1-2y) + 2(y+3)$$

$$12-8y = 3-6y+2y+6$$

$$12-8y = 9-4y \quad | +8y$$

$$12 = 9+4y \quad | -9$$

$$3 = 4y$$

$$4y = 3 \quad | :4$$

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

metoda

$$12-8y = 9-4y \quad | +4y$$

$$12-4y = 9 \quad | -12$$

$$-4y = -3 \quad | :(-4)$$

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

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

metoda

$$-4y = -3 \quad | \cdot (-1)$$

$$4y = 3 \quad | :4$$

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

$$g) \quad \frac{y-5}{2} + \frac{3-y}{6} = 1 - \frac{2y}{3} \quad | \cdot 6$$

$$3(y-5) + 3-y = 6-4y$$

$$3y-15+3-y = 6-4y$$

$$2y-12 = 6-4y \quad | +4y+12$$

$$6y = 18 \quad | :6$$

$$y = 3$$

$$h) \quad y - \frac{2-5y}{10} = \frac{5y-8}{15} - 2 \quad | \cdot 30$$

$$30y - 3(2-5y) = 2(5y-8) - 60$$

$$30y - 6 + 15y = 10y - 16 - 60$$

$$45y - 6 = 10y - 76 \quad | -10y+6$$

$$35y = -70 \quad | :35$$

$$y = \frac{-70}{35}$$

$$y = -\frac{70}{35} = -2$$

$$ch) \quad \frac{y-4}{5} - \frac{y}{10} = \frac{3+y}{2} - 2 \quad | \cdot 10$$

$$2(y-4) - y = 5(3+y) - 20$$

$$2y-8-y = 15+5y-20$$

$$y-8 = 5y-5 \quad | -5y+8$$

$$y-5y = -5+8$$

$$-4y = 3 \quad | :(-4)$$

$$y = -\frac{3}{4} \quad (-0,75)$$

metoda

$$y-8 = 5y-5 \quad | -y+5$$

$$-8+5 = 5y-y$$

$$-3 = 4y$$

$$4y = -3 \quad | :4$$

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

$$i) \quad \frac{3-2y}{3} = \frac{1-2y}{4} + \frac{y+3}{6} \quad | \cdot 12$$

$$4(3-2y) = 3(1-2y) + 2(y+3)$$

$$12-8y = 3-6y+2y+6$$

$$12-8y = 9-4y \quad | +8y$$

$$12 = 9+4y \quad | -9$$

$$3 = 4y$$

$$4y = 3 \quad | :4$$

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

nebo

$$12-8y = 9-4y \quad | +4y$$

$$12-4y = 9 \quad | -12$$

$$-4y = -3 \quad | :(-4)$$

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

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

nebo

$$-4y = -3 \quad | \cdot (-1)$$

$$4y = 3 \quad | :4$$

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

④ Řešte rovnici (v záznamovém archu uveďte celý postup řešení, zkoušku nezapisujte):

$$a) \quad (1-x) \cdot \frac{5}{6} = \frac{10}{9}x - \frac{1}{3}$$

$$\left[\text{upravil mi na zlomky lepší} \right]$$

$$\left[\frac{(1-x) \cdot 5}{1} \cdot \frac{5}{6} = \frac{10 \cdot x}{9} - \frac{1}{3} \right]$$

$$\frac{(1-x) \cdot 5}{6} = \frac{10x}{9} - \frac{1}{3} \quad | \cdot 18$$

$$3 \cdot 5(1-x) = 2 \cdot 10x - 6$$

$$15(1-x) = 20x - 6$$

$$15-15x = 20x-6 \quad | +15x+6$$

$$21 = 35x$$

$$35x = 21 \quad | :35$$

$$x = \frac{21}{35}$$

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

$$\left[\text{NEBO} \quad \frac{5-5x}{6} = \frac{10x}{9} - \frac{1}{3} \quad | \cdot 18 \right]$$

$$3(5-5x) = 20x-6$$

$$15-15x = 20x-6 \quad \text{add.}$$

$$15-15x = 20x-6 \quad | -20x-15$$

$$-35x = -21 \quad | \cdot (-1)$$

$$35x = 21 \quad | :35$$

$$x = \frac{21}{35}$$

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

$$b) \quad \frac{6+5x}{6} - \frac{1}{3} = \frac{10}{9}x + 1 \quad | \cdot 18$$

$$\left[\frac{10}{9} \cdot x = \frac{10 \cdot x}{9 \cdot 1} = \frac{10x}{9} \right]$$

$$3(6+5x) - 6 = 20x + 18$$

$$18+15x-6 = 20x+18$$

$$15x+12 = 20x+18 \quad | -15x-18$$

$$12-18 = 20x-15x$$

$$-6 = 5x$$

$$5x = -6 \quad | :5$$

$$x = -\frac{6}{5}$$

nebo

$$15x+12 = 20x+18 \quad | -20x-12$$

$$15x-20x = 18-12$$

$$-5x = 6 \quad | :(-5)$$

$$x = -\frac{6}{5}$$

$$c) \quad 6x - 2 = 4 \cdot \left(x - \frac{1}{2}\right) + 2x \quad \left[4 \cdot \frac{1}{2} = \frac{4}{2} = \frac{2 \cdot 2}{1 \cdot 1} = 2 \right]$$

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

$$6x-2 = 6x-2 \quad | -6x+2$$

$$0x = 0 \quad \text{PLATĚ}$$

NEKONEČNĚ MNOHO
ŘEŠENÍ

d) $\frac{3-y}{3} + \frac{3}{5} \cdot (y+1) + \frac{y}{3} = y$ upravím

$$\frac{3-y}{3} + \frac{3(y+1)}{5} + \frac{y}{3} = y \quad | \cdot 15$$

$$5(3-y) + 9(y+1) + 5y = 15y$$

$$15 - 5y + 9y + 9 + 5y = 15y$$

$$9y + 24 = 15y \quad | -9y$$

$$24 = 6y \quad | :6$$

$$4 = y$$

$$y = 4$$

POZOR!

$$\left[\begin{array}{l} \frac{3-y}{3} + \frac{3}{5} \cdot (y+1) + \frac{y}{3} = y \quad | \cdot 15 \\ 5(3-y) + 9 \cdot (y+1) + 5y = 15y \end{array} \right]$$

NE

alebo

$$\left[\begin{array}{l} 9y + 24 = 15y \quad | -15y - 24 \\ -6y = -24 \quad | :(-6) \\ 6y = 24 \quad | :6 \\ y = 4 \end{array} \right]$$

e) $\frac{5}{6} \cdot (y-2) - \frac{2}{3} \cdot y = \frac{y}{2} - \frac{5}{4}$ upravím

$$\frac{5(y-2)}{6} - \frac{2y}{3} = \frac{y}{2} - \frac{5}{4} \quad | \cdot 12$$

$$2 \cdot 5(y-2) - 4 \cdot 2y = 6y - 3 \cdot 5$$

$$10(y-2) - 8y = 6y - 15$$

$$10y - 20 - 8y = 6y - 15$$

$$2y - 20 = 6y - 15 \quad | -2y + 15$$

$$-5 = 4y \quad | :4$$

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

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

$$\left[\begin{array}{l} \frac{5}{6} \cdot (y-2) = \frac{5}{6} \cdot \frac{(y-2)}{1} = \frac{5(y-2)}{6} \\ \frac{2}{3} \cdot y = \frac{2}{3} \cdot \frac{y}{1} = \frac{2y}{3} \end{array} \right]$$

POZOR!

problém hneď násobím 12,
NESHÍTE násobiť ešte násobku
(y-2) a y u $\frac{2}{3}$

CHYBNÉ!

$$\frac{5}{6} \cdot (y-2) - \frac{2}{3} \cdot y = \frac{y}{2} - \frac{5}{4} \quad | \cdot 12$$

$$10(12y-24) - 8 \cdot 12y = 6y - 15$$

CHYBNÉ **CHYBNÉ**

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

$$\left[\frac{2}{3} \cdot \frac{(x+1)}{1} = -\frac{1}{3} \cdot \frac{2x-1}{1} - 1 \right]$$

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

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

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

$$2x+1 = -2x-2 \quad | +2x-1$$

$$4x = -3 \quad | :4$$

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

g) $3 \cdot (2x-1) + \frac{2}{3} = \frac{2}{3} - (x+3) \quad | \cdot \frac{3}{3}$

$$6x-3 = -(x+3)$$

$$6x-3 = -x-3 \quad | +x+3$$

$$7x = 0 \quad | :7$$

$$x = 0$$

h) $\frac{5}{3} \cdot (y-1) + \frac{5}{6} \cdot (11-2y) - \frac{3}{4} \cdot y = 0$ *upravil*

$$\frac{5(y-1)}{3} + \frac{5(11-2y)}{6} - \frac{3y}{4} = 0 \quad | \cdot 12$$

$$4 \cdot 5(y-1) + 2 \cdot 5(11-2y) - 3 \cdot 3y = 0$$

$$20(y-1) + 10(11-2y) - 9y = 0$$

$$20y - 20 + 110 - 20y - 9y = 0$$

$$-9y + 90 = 0 \quad | -90$$

$$-9y = -90 \quad | :(-1)$$

$$9y = 90 \quad | :9$$

$$y = \frac{90}{9}$$

$$y = 10$$

⑤ Řešte rovnici (v záznamovém archu uveďte celý postup řešení, zkoušku nezapisujte):

a) $\frac{y+1}{6} - \frac{3y}{2} = 2 + \frac{0,5-y}{3}$ *1.6*

$$y+1 - 3 \cdot 3y = 12 + 2(0,5-y) \quad | \cdot 6$$

$$y+1 - 9y = 12 + 1 - 2y \quad | -1$$

$$-8y = 12 - 2y \quad | +2y$$

$$-6y = 12 \quad | :(-6)$$

$$y = -2$$

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

$$5 - 7,5x = \frac{5x+10}{2} \quad | \text{dál mečí}$$

$$5 - 7,5x = \frac{1}{2}(5x+10)$$

$$5 - 7,5x = 0,5(5x+10) \quad | \cdot 10$$

$$50 - 75x = 5(5x+10)$$

$$50 - 75x = 25x + 50 \quad | -25x - 50$$

$$-100x = 0 \quad | :(-1)$$

$$100x = 0 \quad | :100$$

$$(x = \frac{0}{100})$$

$$x = 0$$

$$\text{mno} \left[2,5 = \frac{25}{10} = \frac{5}{2} \right]$$

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

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

$$5(2-3x) = 5x+10$$

$$10 - 15x = 5x + 10 \quad | +15x - 10$$

$$10 - 10 = 20x$$

$$20x = 0 \quad | :20$$

$$x = 0$$

c) $0,4 \cdot 0,1x + 0,32 : 0,1 = 0,2x$

$$0,04x + 3,2 = 0,2x \quad | \cdot 100$$

$$4x + 320 = 20x \quad | -4x$$

$$320 = 16x$$

$$16x = 320 \quad | :16$$

$$x = \frac{320}{16}$$

$$320 : 16 = 20$$

$$x = 20$$

$$\left[\frac{0,32 : 0,1}{3,2 : 1} = 3,2 \quad \text{mno} \quad \frac{0,32}{0,10} = \frac{32}{10} = 3,2 \right]$$

$$\text{mno} \left[4x + 320 = 20x \right]$$

$$4x - 20x = -320$$

$$-16x = -320 \quad | :(-1)$$

$$16x = 320 \quad \text{ald.}$$

d)

$$2 \cdot (3 - 0,75x) + x = 7 - \frac{x}{2}$$

$$6 - 1,5x + x = 7 - 0,5x$$

$$6 - 0,5x = 7 - 0,5x \quad | +0,5x - 6$$

$$0x = 1$$

$$0 = 1 \quad \text{NEPLATI}$$

ROVNICE NEMÁ ŘEŠENÍ

upravil $\frac{x}{2} = \left[\frac{1 \cdot x}{2} = \frac{1}{2} \cdot \frac{x}{1} \right] = \frac{1}{2}x = 0,5x$

NEBO $2(3 - 0,75x) + x = 7 - \frac{x}{2}$

e)

$$\frac{5x-2}{4} = 1,25x - \frac{1}{2} \quad \text{upravil}$$

$$\frac{5x-2}{4} = \frac{5x}{4} - \frac{1}{2} \quad | \cdot 4$$

$$5x-2 = 5x-2 \quad | -5x+2$$

$$0 = 0$$

$$(0x = 0) \quad \text{platí}$$

NEKONEČNĚ
MNOHO ŘEŠENÍ
(různými konkrétními údaji)

$$1,25x = \frac{5}{4}x \left[\frac{5 \cdot x}{4 \cdot 1} \right] = \frac{5x}{4}$$

$$\left[1,25 = 1 + 0,25 = 1 + \frac{25}{100} = 1 + \frac{1}{4} = \frac{4+1}{4} = \frac{5}{4} \right]$$

KDYBY $5x-2 = 5x-3 \quad | -5x+2$
 $0 = -1 \quad \text{mylné!}$
 $(0x = -1) \quad \text{NEMÁ ŘEŠENÍ}$

f)

$$2,5 \cdot (2x - 0,4) + x = 2,5x + 0,4$$

$$5x - 1 + x = 2,5x + 0,4$$

$$6x - 1 = 2,5x + 0,4 \quad | \cdot 10$$

$$60x - 10 = 25x + 4 \quad | -25x + 10$$

$$35x = 14 \quad | :35$$

$$x = \frac{14}{35}$$

$$x = \frac{2}{5} (= 0,4)$$

$$\begin{array}{r} 2,5 \\ \cdot 0,4 \\ \hline 100 \end{array}$$

g)

$$0,6x - \frac{1}{2} = 1,4x + 1,5 \quad | \cdot 10$$

$$6x - 5 = 14x + 15$$

$$6x - 5 = 14x + 15 \quad | -6x$$

$$-5 = 8x + 15 \quad | -15$$

$$-20 = 8x$$

$$8x = -20 \quad | :8$$

$$x = -\frac{20}{8} \quad \text{kráčí}$$

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

nebo

$$\left[\begin{array}{l} 0,6x - 0,5 = 1,4x + 1,5 \quad | \cdot 10 \\ 6x - 5 = 14x + 15 \end{array} \right]$$

nebo

$$\left[\begin{array}{l} 6x - 5 = 14x + 15 \quad | -14x + 5 \\ 6x - 14x = 15 + 5 \\ -8x = 20 \quad | :8 \\ x = -\frac{20}{8} \quad \text{kráčí} \\ x = -\frac{5}{2} \end{array} \right]$$