

$$x + 2 - 3x = -5x + 8 \quad \textcircled{1}$$

$$-2x + 2 = -5x + 8 \quad | +5x$$

$$3x + 2 = 8 \quad | -2$$

$$3x = 6 \quad | :3$$

$$\underline{\underline{x = 2}}$$

SK

$$\begin{aligned} \bar{C} &= x + 2 - 3x = 2 + 2 - 3 \cdot 2 = \\ &= 2 + 2 - 6 = 4 - 6 = 2 \end{aligned}$$

$$P = -5x + 8 = -5 \cdot 2 + 8 = -10 + 8 = 2$$
$$\underline{\underline{\bar{C} = P}}$$

$$-3x + 7 + 2x = 4x + 2$$

$$-x + 7 = 4x + 2 \quad | -4x$$

$$-5x + 7 = 2 \quad | -7$$

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

$$\underline{\underline{x = 1}}$$

SK

$$\begin{aligned} \bar{C} &= -3x + 7 + 2x = -3 \cdot 1 + 7 + 2 \cdot 1 = \\ &= -3 + 7 + 2 = -3 + 9 = 6 \end{aligned}$$

$$P = 4x + 2 = 4 \cdot 1 + 2 = 6$$

$$\underline{\underline{\bar{C} = P}}$$

$$9x - x + 3 = 4x + 15$$

(2)

$$8x + 3 = 4x + 15 \quad | -4x$$

$$4x + 3 = 15 \quad | -3$$

$$4x = 12 \quad | :4$$

$$\underline{\underline{x = 3}}$$

Sk

$$\bar{C} = 9x - x + 3 = 9 \cdot 3 - 3 + 3 = 27$$

$$P = 4x + 15 = 4 \cdot 3 + 15 = 12 + 15 = 27$$

$$\underline{\underline{\bar{C} = P}}$$

$$7x + 16 - 3x = 12 - 6x - 6$$

$$4x + 16 = 6 - 6x \quad | +6x$$

$$10x + 16 = 6 \quad | -16$$

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

$$\underline{\underline{x = -1}}$$

Sk

$$\bar{C} = 7x + 16 - 3x = 7 \cdot (-1) + 16 - 3 \cdot (-1) =$$

$$= -7 + 16 + 3 = -7 + 19 = 12$$

$$P = 12 - 6x - 6 = 12 - 6 \cdot (-1) - 6 =$$

$$= 12 + 6 - 6 = 12$$

$$\underline{\underline{\bar{C} = P}}$$

$$3x - 11 + 5x = 10x + 3 \quad \textcircled{3}$$

$$8x - 11 = 10x + 3 \quad | -10x$$

$$-2x - 11 = 3 \quad | +11$$

$$-2x = 14 \quad | :(-2)$$

$$\underline{\underline{x = -7}}$$

Sk

$$\hat{C} = 3x - 11 + 5x = 3 \cdot (-7) - 11 + 5 \cdot (-7) =$$

$$= -21 - 11 - 35 = -67$$

$$P = 10x + 3 = 10 \cdot (-7) + 3 = -70 + 3 = -67$$

$$\underline{\underline{\hat{C} = P}}$$

$$2x - 3 + 8x = 15 - 4x + 10$$

$$10x - 3 = 25 - 4x \quad | +4x$$

$$14x - 3 = 25 \quad | +3$$

$$14x = 28 \quad | :14$$

$$\underline{\underline{x = 2}}$$

Sk

$$\hat{C} = 2x - 3 + 8x = 2 \cdot 2 - 3 + 8 \cdot 2 =$$

$$= 4 - 3 + 16 = 1 + 16 = 17$$

$$P = 15 - 4x + 10 = 15 - 4 \cdot 2 + 10 =$$

$$= 15 - 8 + 10 = 7 + 10 = 17$$

$$\underline{\underline{\hat{C} = P}}$$

$$12x - 4 + 3x = 8 + 5x$$

$$15x - 4 = 8 + 5x \quad | -5x$$

$$10x - 4 = 8 \quad | +4$$

$$10x = 12 \quad | :10$$

$$x = \frac{12}{10}$$

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

SK

$$L = 12x - 4 + 3x = 12 \cdot \frac{6}{5} - 4 + 3 \cdot \frac{6}{5} =$$

$$= \frac{72}{5} - 4 + \frac{18}{5} = \frac{90}{5} - 4 = 18 - 4 = 14$$

$$P = 8 + 5x = 8 + 5 \cdot \frac{6}{5} = 8 + \frac{30}{5} =$$

$$= 8 + 6 = 14$$

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

$$4x = 0 \quad | :4$$

$$x = 0$$

$$L = 4x - 4 = 4 \cdot 0 - 4 = 0 - 4 = -4$$

$$P = -4$$

$$9x + 3(2-x) = 12(x+1) - 6 \quad (5)$$

$$9x + 6 - 3x = 12x + 12 - 6$$

$$6x + 6 = 12x + 6 \quad / -12x$$

$$-6x + 6 = 6 \quad / -6$$

$$-6x = 0 \quad / :(-6)$$

$$x = 0$$

Sk

$$\bar{L} = 9x + 3(2-x) =$$

$$= 9 \cdot 0 + 3(2-0) =$$

$$= 0 + 3 \cdot 2 = 6$$

$$P = 12(x+1) - 6 = 12 \cdot (0+1) - 6 =$$

$$= 12 \cdot 1 - 6 = 12 - 6 = 6$$

$$\bar{L} = P$$

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

$$12x + 5 - 6x + 9 = 4x + 20 + 2x + 6$$

$$6x + 14 = 6x + 26 \quad | -6x$$

$$\underline{\underline{14 = 26}}$$

ÚLOHA NEMÁ RIEŠENIE !

$$2(7x + 5) - 2x - 4 = 5(3x + 2) + 12 - 3x$$

$$14x + 10 - 2x - 4 = 15x + 10 + 12 - 3x$$

$$12x + 6 = 12x + 22 \quad | -12x$$

$$6 = 22 .$$

ÚLOHA NEMÁ RIEŠENIE

$$4x - 10 + 2x = 6x - 9$$

$$6x - 10 = 6x - 9 \quad | -6x$$

$$\underline{\underline{-10 = -9}}$$

ÚLOHA NEMÁ RIEŠENIE

$$4(x+6) - 3x - 2 = 5(2-2x) - x$$

7

$$4x + 24 - 3x - 2 = 10 - 10x - x$$

$$x + 22 = 10 - 11x \quad | +11x$$

$$12x + 22 = 10 \quad | -22$$

$$12x = -12 \quad | : (+12)$$

$$x = -1$$

SK

$$L = 4(x+6) - 3x - 2 =$$

$$= 4(-1+6) - 3 \cdot (-1) - 2 =$$

$$= 4 \cdot 5 + 3 - 2 = 23 - 2 = 21$$

$$P = 5(2-2x) - x = 5 \cdot (2 - 2 \cdot (-1)) - (-1) =$$

$$= 5 \cdot (2+2) + 1 =$$

$$= 5 \cdot 4 + 1 = 20 + 1 = 21$$

$$L = P$$

8

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

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

$$9x - 12 = -3x + 12 \quad | +3x$$

$$12x - 12 = 12 \quad | +12$$

$$12x = 24 \quad | :12$$

$$x = 2$$

SK.

$$\bar{L} = 3(x-4) + 6x = 3(2-4) + 6 \cdot 2 =$$

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

$$P = 3 \cdot (2-2) + 6 = 3 \cdot 0 + 6 = 6$$

$$\bar{L} = P$$

$$5x + 2(x-2) = 13 - 3(x-1)$$

$$5x + 2x - 4 = 13 - 3x + 3$$

$$7x - 4 = 16 - 3x \quad | +3x$$

$$10x - 4 = 16 \quad | +4$$

$$10x = 20 \quad | :10$$

$$x = 2$$

$$\bar{L} = 5x + 2(x-2) = 5 \cdot 2 + 2(2-2) = 10$$

$$P = 13 - 3(x-1) = 13 - 3(2-1) =$$

$$= 13 - 3 \cdot 1 = 13 - 3 = 10$$

$$\bar{L} = P$$

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

$$2x + 6 + 2x = x - 3x - 12$$

$$4x + 6 = -2x - 12 \quad / + 2x$$

$$6x + 6 = -12 \quad / -6$$

$$6x = -18 \quad / :6$$

$$x = -3$$

SK

$$\begin{aligned} \bar{L} &= 2(x+3) + 2x = 2(-3+3) + 2 \cdot (-3) = \\ &= 2 \cdot 0 - 6 = -6 \end{aligned}$$

$$\begin{aligned} P &= x - 3(x+4) = -3 - 3(-3+4) = \\ &= -3 - 3 \cdot (+1) = -3 - 3 = -6 \end{aligned}$$

$$\bar{L} = P$$

$$8(5-4x) + 15x - 30 = 15(x+2) + 4 - 28x \quad (10)$$

$$40 - 32x + 15x - 30 = 15x + 30 + 4 - 28x$$

$$10 - 17x = -13x + 34 \quad / +13x$$

$$10 - 4x = 34 \quad / -10$$

$$-4x = 24 \quad / :(-4)$$

$$x = -6$$

Sk.

$$\begin{aligned} L &= 8(5-4x) + 15x - 30 = \\ &= 8 \cdot (5 - 4 \cdot (-6)) + 15 \cdot (-6) - 30 = \\ &= 8 \cdot (5 + 24) + (-90) - 30 = \\ &= 8 \cdot 29 - 120 = 232 - 120 = 112 \end{aligned}$$

$$\begin{aligned} P &= 15(x+2) + 4 - 28x = \\ &= 15(-6+2) + 4 - 28 \cdot (-6) = \\ &= 15 \cdot (-4) + 4 + 168 = \\ &= -60 + 172 = 112 \end{aligned}$$

$$L = P$$

$$5(2x-4) + 5x = 3(x+3) - 15 \quad (11)$$

$$10x - 20 + 5x = 3x + 9 - 15$$

$$15x - 20 = 3x - 6 \quad | -3x$$

$$12x - 20 = -6 \quad | +20$$

$$12x = 14 \quad | :12$$

$$x = \frac{14}{12}$$

$$x = \frac{7}{6}$$

$$\begin{aligned} L &= 5(2x-4) + 5x = 5 \cdot \left(2 \cdot \frac{7}{6} - 4\right) + 5 \cdot \frac{7}{6} = \\ &= 5 \cdot \left(\frac{14}{6} - \frac{24}{6}\right) + \frac{35}{6} = 5 \cdot \left(-\frac{10}{6}\right) + \frac{35}{6} = \\ &= -\frac{50}{6} + \frac{35}{6} = -\frac{15}{6} = -2\frac{3}{6} = \underline{\underline{-2\frac{1}{2}}} \end{aligned}$$

$$\begin{aligned} P &= 3(x+3) - 15 = 3 \cdot \left(\frac{7}{6} + 3\right) - 15 = \\ &= 3 \cdot \left(\frac{7}{6} + \frac{18}{6}\right) - 15 = 3 \cdot \frac{25}{6} - \frac{90}{6} = \\ &= \frac{75}{6} - \frac{90}{6} = -\frac{15}{6} = -2\frac{3}{6} = \underline{\underline{-2\frac{1}{2}}} \end{aligned}$$

$$L = P$$

$$3(x+5) - 2(3+x) - 5x = 13 + 4(x-1) \quad (12)$$

$$3x + 15 - 6 - 2x - 5x = 13 + 4x - 4$$

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

$$-8x + 9 = 9 \quad | -9$$

$$-8x = 0 \quad | : (-8)$$

$$\underline{\underline{x = 0}}$$

Sk

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

$$= 3(0+5) - 2(3+0) - 5 \cdot 0 =$$

$$= 3 \cdot 5 - 2 \cdot 3 - 0 = 15 - 6 = \underline{\underline{9}}$$

$$P = 13 + 4(x-1) = 13 + 4(0-1) =$$

$$= 13 + 4 \cdot (-1) = 13 - 4 = \underline{\underline{9}}$$

$$C = P$$