

## ROVNICE

$$\text{~~~~~} = \text{~~~~~} \quad | \quad 0$$

řešení

- úpravy
- ekvivalentní (zachovají možná řešení)
  - důsledkové (? řešení navíc)
  - chybné

12 11-10:00

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

$$4x - 10 = x + 2 \quad | + 10$$

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

$$3x = 12 \quad | : 3$$

$$\underline{\underline{x = 4}}$$

$$Zk(4): L: 2 \cdot 4 - 5 = 8 - 5 = \underline{3}$$

$$P: \frac{4+2}{2} = \frac{6}{2} = \underline{3}$$

$$\underline{L = P}$$

ZKOUŠKA U EKUIVAL. ÚPRAV  
SLOUŽÍ PRO KONTROLU  
NUMERICKÝCH VÝPOČTŮ

$$\underline{\underline{K = \{4\}}}$$

12 11-10:07

$$\sqrt{x+16} = x+4 \quad |^2$$

$$x+16 = x^2 + 8x + 16 \quad | -x-16$$

$$0 = x^2 + 7x$$

$$0 = x(x+7)$$

$$x_1 = 0 \quad x+7=0 \quad | -7$$

$$x_2 = -7 \quad x = -7$$

zk(0):

$$L = \sqrt{0+16} = 4$$

$$P = 0+4 = 4$$

$$L = P$$

$x_1 = 0$

zk(-7):

$$L = \sqrt{-7+16} = \sqrt{9} = 3$$

$$P = -7+4 = -3$$

$$L \neq P$$

$K = \{0\}$

12 11-10:14

$$(x+1)(x-3) = x+1 \quad | : (x+1) \quad !$$

$$x+1 \neq 0 \quad x \neq -1 \Rightarrow x-3 = 1 \quad | +3$$

$$\underline{\underline{x = 4}}$$

zk(4):

$$L = (4+1)(4-3) = 5 \cdot 1 = 5$$

$$P = 4+1 = 5$$

$$L = P$$

?

$$x_2 = -1 \quad L = (-1+1)(-1-3) = 0$$

$$P = -1+1 = 0$$

$$L = P$$

$K = \{-1; 4\}$

12 11-10:22

EKVIV. ÚPRAVY

Sami

Pr:

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| $2x\sqrt{3} - 7 = 0$                             | $\left\{ \frac{7}{6}\sqrt{3} \right\}$ |
| $3x + 5 = 7x + 13$                               | $\{-2\}$                               |
| $x\sqrt{2} - \sqrt{3} = \sqrt{3} - x$            | $\{ 2\sqrt{3}(\sqrt{2}-1) \}$          |
| $5(2-x) = -5x - 7$                               | $\{ \}$                                |
| $x\sqrt{2} - \sqrt{3} = -(\sqrt{3} - x\sqrt{2})$ | $\{ \mathbb{R} \}$                     |

12 11-10:31