

$$1) a) 0, (216)$$

$$a = 0, (216)$$

$$1000a = 216, (216)$$

$$a = \frac{216}{999}$$

$$b) 1, 0 (01)$$

$$100a = 1 + a$$

$$a = \frac{1}{99}$$

$$b = 1, 0 (01)$$

$$10b = 10 + \frac{1}{99}$$

$$b = \frac{991}{990}$$

$$2) x = \frac{2}{21}$$

$$x_k = 0, (13)_k$$

$$k^2 x = 13, (13)_k$$

$$k^2 x - x = 13_k$$

$$x = \frac{13_k}{k^2 - 1}$$

$$13 = 1 \cdot k^1 + 3 \cdot k^0$$

$$x = \frac{k+3}{k^2-1}$$

$$\frac{k+3}{k^2-1} = \frac{2}{21}$$

$$21k + 63 = 2k^2 - 2$$

$$2k^2 - 21k - 65 = 0$$

$$D = b^2 - 4ac = 441 + 520 = 961$$

$$k_{1,2} = \frac{-b \pm \sqrt{D}}{2a} = \frac{21 \pm 31}{4}$$

$$k_1 = 13 \quad k_2 = -2,5$$

$$k = 13$$

$$3) a) (A \vee B) \rightarrow (B \vee \bar{A})$$

A	B	$A \vee B$	$\bar{A}$	$B \vee \bar{A}$	$(A \vee B) \rightarrow (B \vee \bar{A})$
0	0	0	1	1	1
0	1	1	1	1	1
1	0	1	0	0	0
1	1	1	0	1	1

не табулована