Priklady (generatory v. p.):  $\Lambda = \mathbb{R}^2, \mathbb{P} = \mathbb{R}$  $\times$   $u_{1} = (0, 0), u_{2} = (1, 1)$  $\begin{array}{l} \underbrace{\forall u \in \mathbb{R}^{2} \exists P_{11}P_{2} \in \mathbb{R} \ t_{2}k_{1}z_{e}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \exists P_{11}P_{2} \in \mathbb{R} \ t_{2}k_{1}z_{e}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1} + P_{2}, u_{2}}_{U_{2}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u \in \mathbb{R}^{2} \ u_{1}b \in \mathbb{R}}_{U_{1}} \\ \underbrace{\forall u$  $(a_1b) = (P_1 0_1 P_1 \cdot 0) + (P_2 \cdot 1_1 P_2 \cdot 1)$  $(a_1b) = (0_10) + (P_2 \cdot P_2)$  $(a_1b) = (P_2, P_2)$  $\alpha = P_{2} b = P_{2}$ | P2 = a (=b) | =>{u,uz} nonimn gen. R'nad R

 $U_{3} = (0,1), U_{4} = (1,0), U_{5} = (1,1)$   $\forall c_{9(5)} \in \mathbb{R}^{2} \exists P_{3}, P_{1}, P_{5} \in \mathbb{R} + 2k, z_{e}:$  $(a,b) = P_3 \cdot u_3 \cdot i P_4 \cdot u_4 + P_5 \cdot u_5$  $(a_1b) = P_3(0_1) + P_4(1_0) + P_5(1_1)$  $(a_1b) = (P_3 + P_5, P_4 + P_5)$ a = P3+P5 b  $= Pq + P_5$ 4 475  $\simeq$ P = bit gen. V. P. R2 had R

Title: 2. 22-10:09 dop. (2 of 7)

Definice: Riknemer ie vektors en men EV j504 Lineznne nezávislé, jesthé z rovnosti •  $X_{1}e_{1} + ... + x_{n} e_{n} = 0$ kde X11--1XnEP • plyne  $X_1 = X_2 = \dots = X_n = 0$ . Priklad viz priedchori priklad Johoving Gyb) = (0,0) => ] i nonwlové řesphi=)  $\Rightarrow P_{2} = -t$ relet. Usinying ison Lin. zak Py = ~ Pr - r

Title: 2. 22-10:31 dop. (4 of 7)

Title: 2. 22-10:52 dop. (6 of 7)