

2-ty řada: $f(0), f(1), f(2), \dots$

$$f(n+2) = F(n, f(n), \dots, f(n+2-1))$$

pr. $f(n+2) = f(n) + f(n+1)$

$$c = (1-a-b)g$$

$$d_{1,2} = d \quad d^n, \quad n d^n$$

$$g = \frac{c}{1-a-b}$$

$f(n+2) = a f(n+1) + b f(n) + c$

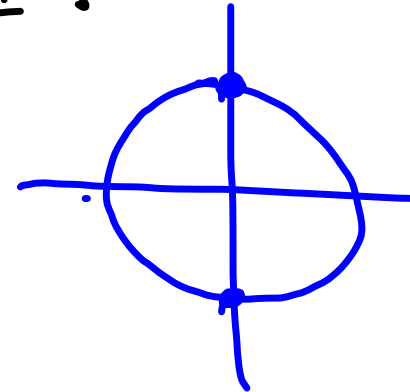
f :: $\mathbb{R} \in$ konvergenční
 g :: $\mathbb{R} \in$ rekurrenční
 $g = g(n) \Rightarrow$

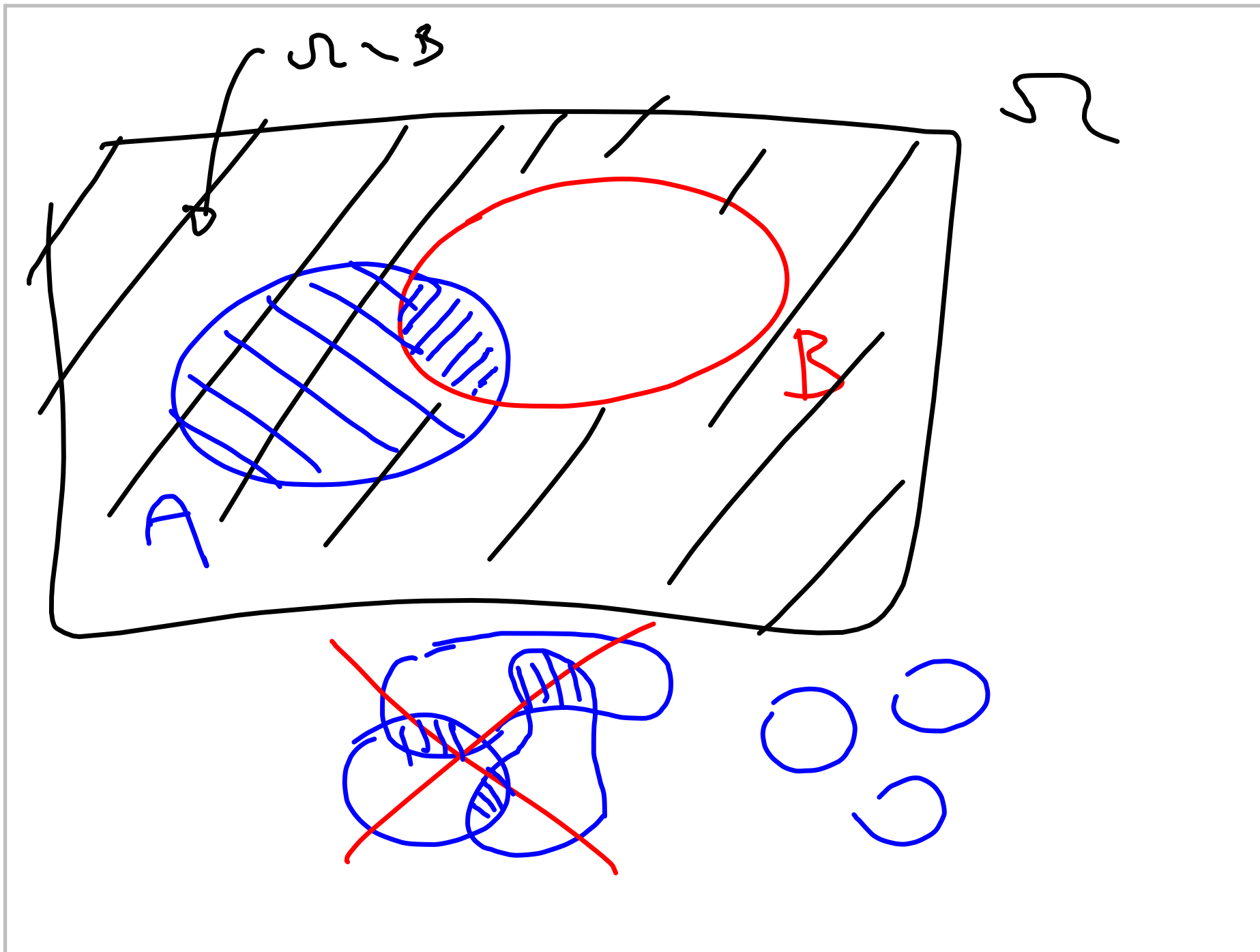
$$\left. \begin{aligned} f(n+2) + g(n+2) &= \dots \\ g &= a g + b g + c \end{aligned} \right\}$$

$$f(n+2) = -f(n)$$

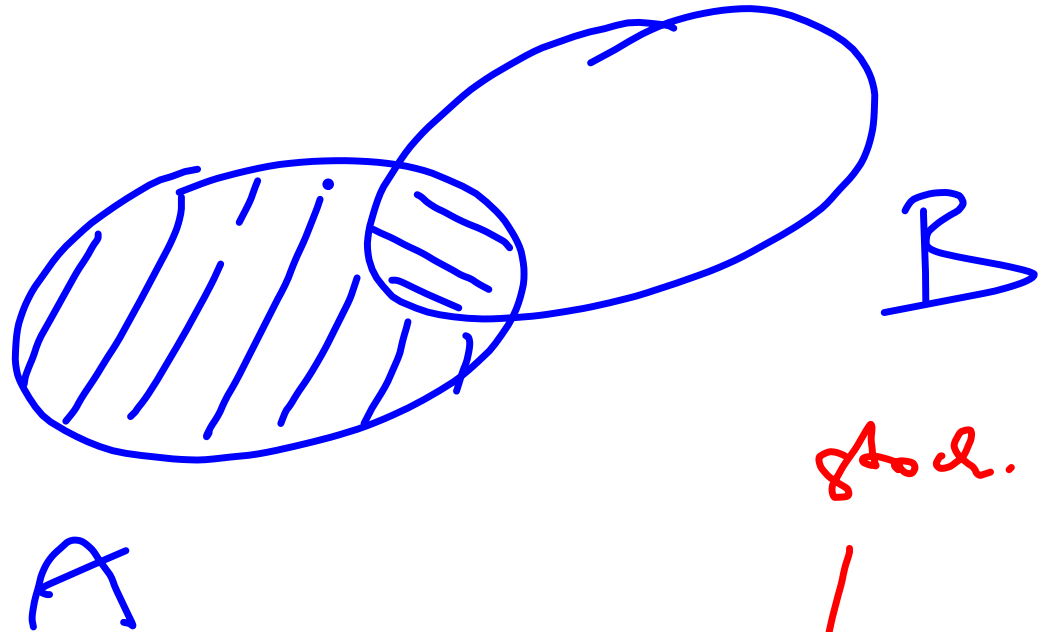
$$d^2 + 1 = 0 \quad \Rightarrow \quad d = \pm i$$

$$i, -i$$





$$A = (A \setminus B) \cup (A \cap B)$$



stoch. nezav.



$$\Rightarrow P(A) = P(A \setminus B) + \underbrace{P(A \cap B)}_{= P(A) \cdot P(B)}$$

$$\begin{aligned}
 x \in A_1 \cup \dots \cup A_n &\Leftrightarrow \exists i: x \in A_i \\
 \Leftrightarrow \exists i: x \notin A_i^c &\Leftrightarrow x \notin A_1^c \cap \dots \cap A_n^c \\
 \Leftrightarrow x \in (A_1^c \cap \dots \cap A_n^c)^c
 \end{aligned}$$

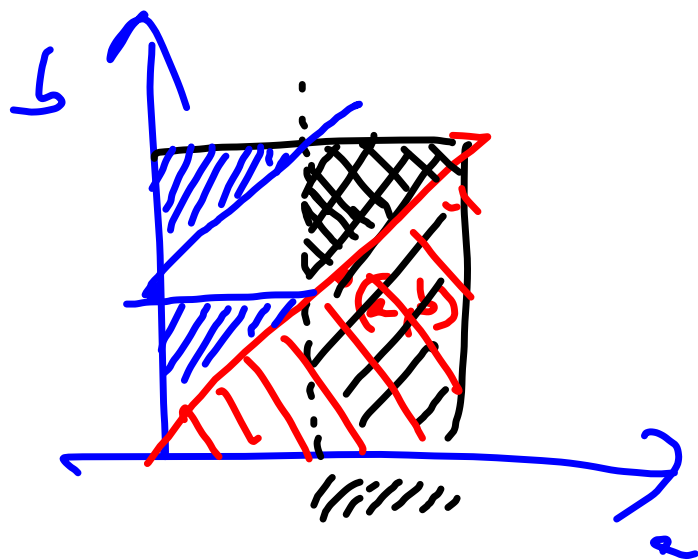
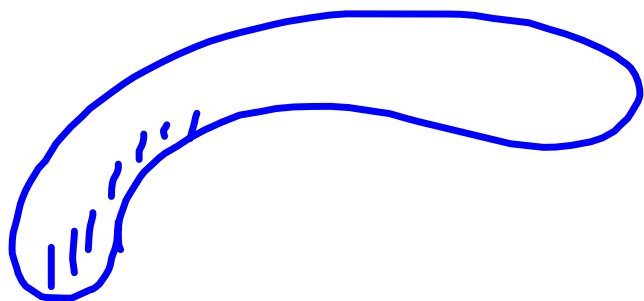
apri jedinečtví 6 ve dvou kulech:

$A_1 \dots 6$ prvně $1/6$
 $A_2 \dots 6$ druhé $1/6$

$$1 - (1 - 1/6)(1 - 1/6) = 1 - \frac{25}{36} = \frac{11}{36}$$

$$P(A_k | \underbrace{A_1 \cap \dots \cap A_{k-1}}_{=H}) = \frac{P(A_1 \cap \dots \cap A_k)}{P(A_1 \cap \dots \cap A_{k-1})}$$

$$\cancel{P(A_1)} \cdot \frac{\cancel{P(A_1 \cap A_2)}}{\cancel{P(A_1)}} \cdot \frac{\cancel{P(A_1 \cap A_2 \cap A_3)}}{\cancel{P(A_1 \cap A_2)}} \cdot \dots \cdot \frac{P(A_1 \cap \dots \cap A_k)}{\cancel{P(A_1 \cap \dots \cap A_{k-1})}}$$



celá plocha 1
negativně 1/8

$$\Rightarrow 3/8$$

