



$$\varphi_0(x) \leq \varphi_1(p(x)) \parallel \varphi_1(x) \leq \varphi_2(x) \parallel \varphi_2(x) \leq \varphi_3(x) \parallel \dots$$

$$x + \varphi_1(x) = z \in \varphi_2(x) \parallel \varphi_2(x) = z \in \varphi_3(x) \parallel \dots$$

$$x = \varphi_1(x) \parallel \varphi_1(x) = z \in \varphi_2(x) \parallel \varphi_2(x) = z \in \varphi_3(x) \parallel \dots$$

$$\varphi_0(x) \leq \varphi_1(x) \parallel \varphi_1(x) \leq \varphi_2(x) \parallel \varphi_2(x) \leq \varphi_3(x) \parallel \dots$$

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$$1 \leq 1+2$$

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$$\varphi_{\alpha}(x, y) = \varphi z (p(f(x, z))) \Leftrightarrow p(f(y, z))$$

$$x + f_{\mathbb{Z}}^{n+1} \in \{f_n\}_{n=0}^{\infty}$$

$$\frac{\varphi z}{\in \mathbb{N}}$$

$$y + f_{\mathbb{Z}}^{n+1} \in \{f_n\}_{n=0}^{\infty}$$

$$\rightarrow x = y$$

$$\varphi_{\alpha}(x, y) = \varphi z (p(f(x, z))) \Leftrightarrow p(f(y, z))$$

$$y = x + 1$$

$$f_{\alpha} = 0$$

$$x : \text{free } \varphi_{\alpha} \text{ on } \{x\}$$

$$\varphi_{\alpha}(x, y) = \varphi z (p(f(x, z))) \Leftrightarrow p(f(y, z))$$

$$\text{Pre } v = \{c, f_n, f_{n+1} \mid n \in \mathbb{N}\}$$

$$e_{\text{prev}}(x, y) \leq p(x) \otimes p(y) \otimes$$

$$(e_{\text{ex}}(x) \otimes e_{\text{ex}}(y)) \vee$$

$$n=0$$

$$f_{n \times n} g_{n \times n} (e_{f_{ib}}(x, n_x) \otimes$$

$$n \geq n$$

$$e_{n \times n}(n_x, n_y) \otimes e_{f_{ib}}(y, n_y))$$

$$f(x, y) = z \iff x + f_{y+1} = z$$

$$f_0 = 0$$

$$f_1 = 1$$

$$f_{n+2} = f_{n+1} + f_n$$

$$p(x) \iff x \in \{f_n \mid n = 0, \dots, \infty\}$$

$$x = \frac{f_{n+1}}{0 + f_{n+1}} = x$$

$$e_0, e_1, e_{2n}, e_{n+1}$$

$$e_{f_{ib}}(x, n) \leq f_n f_m (e_{\text{ex}}(f) \otimes e_{\text{ex}}(f))$$

$$x \leq f_n$$

$$e_{n+1}(m, n) \otimes e_{n+1}(m, n) \otimes e_{n+1}(m, n)$$

$$n+1 = m$$

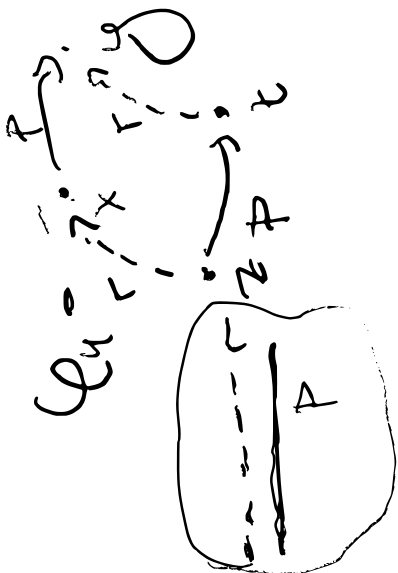
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$$\begin{aligned} & \frac{(x^2)^\perp}{(x^2)} \leq (P_1 + P_2) \cap \overline{\delta(x^2)} \cap \overline{\delta(P_1 x)} \oplus A^2 A^3 \cap A^1 A^2 A^3 \\ & \quad \times \infty \subset B_{\text{non}} \otimes H^n \quad (P_1 x) \cup \overline{\delta(A^1 x)} \subseteq A^1 A^2 A^3 \\ & \quad (x^2)^\perp \oplus x A^1 A^2 A^3 \end{aligned}$$

$\mathcal{G}_1$  - preferred ~~not~~

$$\ell_2 - \text{outdegree}(x) \geq 1 \text{ no } \underline{\text{no}}$$

$\ell_3 - \text{index}(x) = 0$  ~~van~~





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$\ell_2$ -norm are easy to compute. Total

$$\text{outdegree}(x) \geq 1 \quad \text{indegree}(x) \geq 1$$

$$f = \psi_0, \psi_1, \psi_2, \psi_3, \psi_4, \psi_5, \psi_6, \psi_7, \psi_8, \psi_9$$


$$A = \mathbb{R}, \sigma \wedge$$

$$2) \neq 8$$

$$2) \neq x$$

$$8$$

$$8$$

$$x$$

$$\leftrightarrow$$

$$A(x) \rightarrow B(x)$$

$$x$$



$$\boxed{\{z \in \mathbb{R}^n \mid z^T z = 1\}}$$

$$\begin{aligned} & ((1+z)d \otimes (1+x)d \otimes (1+y)d) \otimes z_A \\ & \Leftrightarrow ((1+x)d \otimes (1+y)d \otimes (1+z)d) \otimes z_A \end{aligned}$$

$$\begin{aligned} & ((1+x^1 z^1)d \otimes (x^1 z^1)d) \\ & \Leftrightarrow ((z^1 x^1)d \otimes (z^1 x^1)d) \otimes z_A \end{aligned}$$

$$\begin{aligned} & ((1+z^1 d) \otimes (z^1 x^1)d) \otimes z_A \\ & \Leftrightarrow ((1+x^1 d) \otimes (1+z^1 d)) \otimes z_A \end{aligned}$$

Homework 8102 from 11