- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{T_1}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{T_2}$  recognizable formation in class  $\mathfrak{S}$ .
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- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{S_n}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{sub_{\mathfrak{F}}}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{S_{an}}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{S_{cn}}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{S_{\mathfrak{X}-at}}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Sigma_2^{S_{\mathfrak{X}-san}}$  -recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Omega_2^{T_1}$  recognizable formation in class  $\mathfrak{S}$ .
- Let  $\mathfrak{F} = \mathfrak{N}_p \mathfrak{X}$ , where  $\mathfrak{X}$  formation, and  $\mathfrak{X} \subseteq \mathfrak{N}$ . Then  $\mathfrak{F}$  is  $\Omega_2^{T_2}$  recognizable formation in class  $\mathfrak{S}$ .
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