

Домашнее задание по Математической логике №5

Приложение 2. Метод резолюций

Часть 4. 20001 – 25000

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9 декабря 2021 г.

1. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee e_{4,6} \vee \neg t_{\neg e_{4,5}, e_{4,6}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee e_{4,6} \vee \neg t_{\neg e_{4,5}, e_{4,6}}$
2. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}}$
3. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee \neg e_{4,6} \vee \neg t_{\neg e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee \neg t_{\neg e_{4,5}, \neg e_{4,6}} \vee \neg e_{4,6}$
4. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}}$
5. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee \neg e_{4,6} \vee \neg t_{\neg e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee \neg t_{\neg e_{4,5}, \neg e_{4,6}} \vee \neg e_{4,6}$
6. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{e_{1,4}, e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{e_{1,4}, e_{2,4}}$
7. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee e_{4,6} \vee \neg t_{\neg e_{4,5}, e_{4,6}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee e_{4,6} \vee \neg t_{\neg e_{4,5}, e_{4,6}}$
8. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{e_{1,4}, e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{e_{1,4}, e_{2,4}}$
9. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee \neg e_{5,6} \vee \neg t_{\neg e_{4,5}, \neg e_{5,6}} \vdash \neg e_{5,6} \vee t_{e_{1,4}, \neg e_{2,4}} \vee \neg t_{\neg e_{4,5}, \neg e_{5,6}}$
10. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{\neg e_{1,5}, \neg e_{2,5}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{\neg e_{1,5}, \neg e_{2,5}}$
11. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vdash e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vee t_{e_{1,4}, \neg e_{2,4}}$
12. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{\neg e_{1,5}, \neg e_{2,5}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{\neg e_{1,5}, \neg e_{2,5}}$
13. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vdash e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vee t_{e_{1,4}, \neg e_{2,4}}$
14. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{\neg e_{1,5}, e_{2,5}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{\neg e_{1,5}, e_{2,5}}$
15. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee \neg e_{5,6} \vee \neg t_{\neg e_{4,5}, \neg e_{5,6}} \vdash \neg e_{5,6} \vee t_{e_{1,4}, \neg e_{2,4}} \vee \neg t_{\neg e_{4,5}, \neg e_{5,6}}$
16. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{\neg e_{1,5}, e_{2,5}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{\neg e_{1,5}, e_{2,5}}$
17. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vdash e_{5,6} \vee \neg t_{\neg e_{4,5}, e_{5,6}} \vee t_{e_{1,4}, \neg e_{2,4}}$
18. $e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}}, \neg e_{4,5} \vee t_{\neg e_{1,5}, \neg e_{2,5}} \vdash t_{e_{1,5}, \neg e_{2,5}} \vee t_{e_{1,4}, \neg e_{2,4}}$

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4987. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{\neg e_{1,4}, \neg e_{2,4}} \vdash t_{\neg e_{1,4}, \neg e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4988. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,5}, e_{2,5}} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}}$
4989. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{\neg e_{1,4}, e_{2,4}} \vdash t_{\neg e_{1,4}, e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4990. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,5}, e_{2,5}} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}}$
4991. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{\neg e_{1,4}, e_{2,4}} \vdash t_{\neg e_{1,4}, e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4992. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee e_{4,6} \vee \neg t_{e_{4,5}, e_{4,6}} \vdash e_{4,6} \vee t_{e_{1,5}, e_{2,5}} \vee \neg t_{e_{4,5}, e_{4,6}}$
4993. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4994. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,5}, e_{2,5}} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}}$
4995. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{e_{1,4}, \neg e_{2,4}} \vdash t_{e_{1,4}, \neg e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4996. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee e_{4,6} \vee \neg t_{e_{4,5}, e_{4,6}} \vdash e_{4,6} \vee t_{e_{1,5}, e_{2,5}} \vee \neg t_{e_{4,5}, e_{4,6}}$
4997. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{e_{1,4}, e_{2,4}} \vdash t_{e_{1,4}, e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
4998. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee e_{4,6} \vee \neg t_{e_{4,5}, e_{4,6}} \vdash e_{4,6} \vee t_{e_{1,5}, e_{2,5}} \vee \neg t_{e_{4,5}, e_{4,6}}$
4999. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee t_{e_{1,4}, e_{2,4}} \vdash t_{e_{1,4}, e_{2,4}} \vee t_{e_{1,5}, e_{2,5}}$
5000. $\neg e_{4,5} \vee t_{e_{1,5}, e_{2,5}}, e_{4,5} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}} \vdash t_{e_{1,5}, e_{2,5}} \vee \neg e_{4,6} \vee \neg t_{e_{4,5}, \neg e_{4,6}}$