

Домашнее задание по Математической логике №5

Приложение 2. Метод резолюций

Часть 1. 1 – 5000

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

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