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Current Propositional Formulas

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Current formulas manipulation:

Enter some formulas:

Help:

Add to / Overwrite current formulas

Add random formulas of low medium high complexity

Save/Load formulas:

¹Interactions developed by: P. Baumgartner, A. Deutsch, M. Maron, C. Obermaier, A. Sinner



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This is your set of current propositional formulas:

Currently empty. [Delete selected](#) / [Delete all](#) current formulas

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Truth Tables

[Generate truth tables for selected formulas](#) [Delete current truth tables](#) Here are the current truth tables (possibly from a previous run):

Currently empty.

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Tableaux

[Interactive Tableaux for current formulas](#)

[Generate analytic tableaux for current formulas](#) [Delete current tableau](#)

Note (system limitations): (1) only trees with a branching factor not exceeding 5 can be drawn. (2) the time limit for tableau construction is 60 sec. Here is the current tableau (possibly from a

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previous run):

Currently none.

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Current Propositional Clauses

Current clauses manipulation:

Enter some clauses:

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[Add](#) random clauses of low medium high complexity

Save/Load clauses:

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This is your set of current propositional clauses:

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[Convert selected](#) / [Convert all](#) current propositional formulas to CNF, replacing the current clauses.

[5/4](#)

Exercises

[Perform this exercise with the selected propositional formula](#)

Current exercise:

Transform the following formula into CNF:

Currently empty. How to do the exercise:

Current transformations: Currently empty.

[Apply](#) next formula:

Help:

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Instantiated completeness proof

[Generate the resolution completeness proof for the current clauses](#)

[Delete current proof](#)

This is your set S of current clauses : $\{\}$

Unfortunately S is not unsatisfiable, so it does not make sense to explain the proof with it. Please try again with an unsatisfiable set of clauses.

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Resolution Closure

[Generate resolution closure for the current clauses](#)

[Delete current resolution closure](#)

This

is your set $Res^*(\text{current clauses})$, (possibly from a previous run):

Currently empty.

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Labeling algorithm

[Apply labeling algorithm to the current clauses](#)

[Delete current labeling algorithm result](#)

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This is the result, (possibly from a previous run):

Currently none.

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CNF Tableaux

[Generate analytic tableaux for current clauses](#) [Delete current tableau](#)

Note (system limitations): (1) only trees with a branching factor not exceeding 5 can be drawn. (2) the time limit for tableau construction is 60 sec. Here is the current tableau (possibly from a previous run):

Currently none.

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Otter

[Apply Otter to the current clauses](#) [Delete current Otter Result](#) This is the result, (possibly from a previous run):

Currently none.

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Protein

Apply Protein to the current clauses

(possibly from a previous run):

Currently none.

Delete current Protein result

This is the result,

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Current Predicate Logic Formulas

Current formulas manipulation:

Enter some formulas:

Help:

Add to / Overwrite current formulas

Save/Load formulas:

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This is your set of current predicate logic formulas:

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[Convert selected](#) / [Convert all](#) current predicate logic formulas to CNF, replacing the current clauses.

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Current Predicate Logic Clauses

Current clauses manipulation:

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This is your set of current predicate logic clauses:

Currently empty.

[Delete selected](#) / [Delete all](#) current clauses

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Otter

[Apply Otter to the current predicate logic clauses](#) [Delete current Otter Result](#)

This is the result, (possibly from a previous run):

Currently none.

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Protein

Apply PROTEIN to the current clauses
(possibly from a previous run):

Currently none.

Delete current Protein result This is the result,

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Current Terms

This is your set of current terms:

Currently empty.

Current terms manipulation:

Enter some terms:

Help:

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[Unify selected](#) / [Unify all](#) terms.

This is the result, (possibly from a previous run): Currently none.

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