Theorem TC–CO–BC

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<< goedel52.a2; << tests.m

:Package Title: GOEDEL52.A2 2001 January 2 at 8:20 a.m.

It is now: 2001 Jan 4 at 6:8

Loading Simplification Rules

TESTS.M Revised 2000 December 30

weightlimit = 30

Context switch to 'Goedel'Private is needed for ReplaceTest

Just ignore the error message about Unterminated use of BeginPackage

Get::bebal: Unterminated uses of BeginPackage or Begin in <<tests.m.

\texttt{composite[TC, BIGCUP] // VSNormality}

\texttt{composite[TC, BIGCUP] == composite[BIGCUP, TC]}

We also proved this in \texttt{Otter} by a vertical section method.

\texttt{composite[TC, BIGCUP] := composite[BIGCUP, TC]}

\texttt{Map[VERTSECT, Assoc[TC, BIGCUP, inverse[E]]]}

\texttt{composite[IMAGE[TC], IMAGE[BIGCUP]] == composite[IMAGE[BIGCUP], IMAGE[TC]]}

\texttt{composite[IMAGE[TC], IMAGE[BIGCUP]] := composite[IMAGE[BIGCUP], IMAGE[TC]]}

\texttt{Map[VERTSECT, Assoc[TC, TC, inverse[E]]]}

\texttt{composite[IMAGE[TC], IMAGE[TC]] == IMAGE[TC]}

\texttt{composite[IMAGE[TC], IMAGE[TC]] := IMAGE[TC]}

\texttt{AssocTest[[TC, BIGCUP, inverse[E], inverse[S]]]}

\texttt{True}

\texttt{composite[inverse[E], BIGCUP] == composite[inverse[E], BIGCUP, inverse[S]]}

\texttt{Assoc[inverse[E], inverse[E], inverse[S]] // Reverse}

\texttt{composite[inverse[E], BIGCUP, inverse[S]] == composite[inverse[E], BIGCUP]}

\texttt{composite[inverse[E], BIGCUP, inverse[S]] := composite[inverse[E], BIGCUP]}
Assoc[TC, BIGCUP, POWER] // Reverse
composite[BIGCUP, TC, POWER] == TC

composite[BIGCUP, TC, POWER] := TC

Assoc[TC, BIGCUP, inverse[BIGCUP]] // Reverse
composite[BIGCUP, TC, inverse[BIGCUP]] == TC

composite[BIGCUP, TC, inverse[BIGCUP]] := TC

Assoc[TC, BIGCUP, SINGLETON] // Reverse
composite[BIGCUP, TC, SINGLETON] == TC

composite[BIGCUP, TC, SINGLETON] := TC