



## Up Help

- 0 0 kvanti
- 1 0 UniqueMember
- 2 0 UniqueMember(Type)
- 3 0 SameSeries
- 4 0 A4
- 5 0 SameMember
- 6 0 Qclosed(Addition)
- 7 0 Qclosed(Multiplication)
- 8 0 FromCartProd(1)
- 9 0 1rule fromCartProd(2)
- 10 1 constantRationalSeries(\*)
- 11 2 cartProd(\*)
- 12 1 Power(\*)
- 13 2 binaryUnion(\*,\*)
- 14 0 SetOfRationalSeries
- 15 2 IsSubset(\*,\*)
- 16 2 ( $p^*$ , \*)
- 17 1 ( $s^*$ )
- 18 0 ( $\dots$ )
- 19 0 Objekt-var
- 20 0 Ex-var
- 21 0 Ph-var
- 22 0 Værdi
- 23 0 Variabel
- 24 1 Op(\*)
- 25 2 Op(\*,\*)
- 26 2  $* \stackrel{::}{=} *$
- 27 1 ContainsEmpty(\*)
- 28 1 Nat(\*)

- 29 2 Dedu(\*, \*)
- 30 2 Dedu<sub>0</sub>(\*, \*)
- 31 3 Dedu<sub>s</sub>(\*, \*, \*)
- 32 3 Dedu<sub>1</sub>(\*, \*, \*)
- 33 3 Dedu<sub>2</sub>(\*, \*, \*)
- 34 4 Dedu<sub>3</sub>(\*, \*, \*, \*)
- 35 4 Dedu<sub>4</sub>(\*, \*, \*, \*)
- 36 4 Dedu<sub>4</sub><sup>\*</sup>(\*, \*, \*, \*)
- 37 3 Dedu<sub>5</sub>(\*, \*, \*)
- 38 4 Dedu<sub>6</sub>(\*, \*, \*, \*)
- 39 4 Dedu<sub>6</sub><sup>\*</sup>(\*, \*, \*, \*)
- 40 1 Dedu<sub>7</sub>(\*)
- 41 2 Dedu<sub>8</sub>(\*, \*)
- 42 2 Dedu<sub>8</sub><sup>\*</sup>(\*, \*)
- 43 0 Ex<sub>1</sub>
- 44 0 Ex<sub>2</sub>
- 45 0 Ex<sub>3</sub>
- 46 0 Ex<sub>10</sub>
- 47 0 Ex<sub>20</sub>
- 48 1 \*<sub>Ex</sub>
- 49 1 \*<sup>Ex</sup>
- 50 4  $\langle * \equiv * \mid * := * \rangle_{\text{Ex}}$
- 51 4  $\langle * \equiv^0 * \mid * := * \rangle_{\text{Ex}}$
- 52 4  $\langle * \equiv^1 * \mid * := * \rangle_{\text{Ex}}$
- 53 4  $\langle * \equiv^* * \mid * := * \rangle_{\text{Ex}}$
- 54 0 ph<sub>1</sub>
- 55 0 ph<sub>2</sub>
- 56 0 ph<sub>3</sub>
- 57 1 \*<sub>Ph</sub>
- 58 1 \*<sup>Ph</sup>
- 59 4  $\langle * \equiv * \mid * := * \rangle_{\text{Ph}}$
- 60 4  $\langle * \equiv^0 * \mid * := * \rangle_{\text{Ph}}$
- 61 4  $\langle * \equiv^1 * \mid * := * \rangle_{\text{Ph}}$
- 62 4  $\langle * \equiv^* * \mid * := * \rangle_{\text{Ph}}$

63 4  $\langle * \equiv * \mid * := * \rangle_{\text{Me}}$   
64 4  $\langle * \equiv^1 * \mid * := * \rangle_{\text{Me}}$   
65 4  $\langle * \equiv^* * \mid * := * \rangle_{\text{Me}}$   
66 0 bs  
67 0 OBS  
68 0  $\mathcal{BS}$   
69 0  $\emptyset$   
70 0 SystemQ  
71 0 MP  
72 0 Gen  
73 0 Repetition  
74 0 Neg  
75 0 Ded  
76 0 ExistIntro  
77 0 Extensionality  
78 0  $\emptyset\text{def}$   
79 0 PairDef  
80 0 UnionDef  
81 0 PowerDef  
82 0 SeparationDef  
83 0 AddDoubleNeg  
84 0 RemoveDoubleNeg  
85 0 AndCommutativity  
86 0 AutoImply  
87 0 Contrapositive  
88 0 FirstConjunct  
89 0 SecondConjunct  
90 0 FromContradiction  
91 0 FromDisjuncts  
92 0 IffCommutativity  
93 0 IffFirst  
94 0 IffSecond  
95 0 ImplyTransitivity  
96 0 JoinConjuncts

97 0 MP2  
98 0 MP3  
99 0 MP4  
100 0 MP5  
101 0 MT  
102 0 NegativeMT  
103 0 Technicality  
104 0 Weakening  
105 0 WeakenOr1  
106 0 WeakenOr2  
107 0 Formula2Pair  
108 0 Pair2Formula  
109 0 Formula2Union  
110 0 Union2Formula  
111 0 Formula2Sep  
112 0 Sep2Formula  
113 0 Formula2Power  
114 0 SubsetInPower  
115 0 HelperPowerIsSub  
116 0 PowerIsSub  
117 0 (Switch)HelperPowerIsSub  
118 0 (Switch)PowerIsSub  
119 0 ToSetEquality  
120 0 HelperToSetEquality(t)  
121 0 ToSetEquality(t)  
122 0 HelperFromSetEquality  
123 0 FromSetEquality  
124 0 HelperReflexivity  
125 0 Reflexivity  
126 0 HelperSymmetry  
127 0 Symmetry  
128 0 HelperTransitivity  
129 0 Transitivity  
130 0 ERisReflexive

131 0 ERisSymmetric  
132 0 ERisTransitive  
133 0  $\emptyset$ isSubset  
134 0 HelperMemberNot $\emptyset$   
135 0 MemberNot $\emptyset$   
136 0 HelperUnique $\emptyset$   
137 0 Unique $\emptyset$   
138 0 ==Reflexivity  
139 0 ==Symmetry  
140 0 Helper == Transitivity  
141 0 ==Transitivity  
142 0 HelperTransferNotEq  
143 0 TransferNotEq  
144 0 HelperPairSubset  
145 0 Helper(2)PairSubset  
146 0 PairSubset  
147 0 SamePair  
148 0 SameSingleton  
149 0 UnionSubset  
150 0 SameUnion  
151 0 SeparationSubset  
152 0 SameSeparation  
153 0 SameBinaryUnion  
154 0 IntersectionSubset  
155 0 SameIntersection  
156 0 AutoMember  
157 0 HelperEqSysNot $\emptyset$   
158 0 EqSysNot $\emptyset$   
159 0 HelperEqSubset  
160 0 EqSubset  
161 0 HelperEqNecessary  
162 0 EqNecessary  
163 0 HelperNoneEqNecessary  
164 0 Helper(2)NoneEqNecessary

165 0 NoneEqNecessary  
166 0 EqClassIsSubset  
167 0 EqClassesAreDisjoint  
168 0 AllDisjoint  
169 0 AllDisjointImply  
170 0 BSsubset  
171 0 Union(BS/R)subset  
172 0 UnionIdentity  
173 0 EqSysIsPartition  
174 0 (x1)  
175 0 (x2)  
176 0 (y1)  
177 0 (y2)  
178 0 (v1)  
179 0 (v2)  
180 0 (v3)  
181 0 (v4)  
182 0 (v2n)  
183 0 (m1)  
184 0 (m2)  
185 0 (n1)  
186 0 (n2)  
187 0 (n3)  
188 0 ( $\epsilon$ )  
189 0 ( $\epsilon$ )<sub>1</sub>  
190 0 ( $\epsilon$ )<sub>2</sub>  
191 0 (fep)  
192 0 (fx)  
193 0 (fy)  
194 0 (fz)  
195 0 (fu)  
196 0 (fv)  
197 0 (fw)  
198 0 (rx)

199 0 (ry)  
200 0 (rz)  
201 0 (ru)  
202 0 (sx)  
203 0 (sx1)  
204 0 (sy)  
205 0 (sy1)  
206 0 (sz)  
207 0 (sz1)  
208 0 (su)  
209 0 (su1)  
210 0 (fxs)  
211 0 (fys)  
212 0 (crs1)  
213 0 (f1)  
214 0 (f2)  
215 0 (f3)  
216 0 (f4)  
217 0 (op1)  
218 0 (op2)  
219 0 (r1)  
220 0 (s1)  
221 0 (s2)  
222 0  $X_1$   
223 0  $X_2$   
224 0  $Y_1$   
225 0  $Y_2$   
226 0  $V_1$   
227 0  $V_2$   
228 0  $V_3$   
229 0  $V_4$   
230 0  $V_{2n}$   
231 0  $M_1$   
232 0  $M_2$

233 0  $N_1$   
234 0  $N_2$   
235 0  $N_3$   
236 0  $\epsilon$   
237 0  $\epsilon_1$   
238 0  $\epsilon_2$   
239 0 FX  
240 0 FY  
241 0 FZ  
242 0 FU  
243 0 FV  
244 0 FW  
245 0 FEP  
246 0 RX  
247 0 RY  
248 0 RZ  
249 0 RU  
250 0 (SX)  
251 0 (SX1)  
252 0 (SY)  
253 0 (SY1)  
254 0 (SZ)  
255 0 (SZ1)  
256 0 (SU)  
257 0 (SU1)  
258 0 FXS  
259 0 FYS  
260 0 (F1)  
261 0 (F2)  
262 0 (F3)  
263 0 (F4)  
264 0 (OP1)  
265 0 (OP2)  
266 0 (R1)



267 0 (S1)  
268 0 (S2)  
269 0 (EPob)  
270 0 (CRS1ob)  
271 0 (F1ob)  
272 0 (F2ob)  
273 0 (F3ob)  
274 0 (F4ob)  
275 0 (N1ob)  
276 0 (N2ob)  
277 0 (OP1ob)  
278 0 (OP2ob)  
279 0 (R1ob)  
280 0 (S1ob)  
281 0 (S2ob)  
282 0  $ph_4$   
283 0  $ph_5$   
284 0  $ph_6$   
285 0 NAT  
286 0 RATIONAL<sub>S</sub>ERIES  
287 0 SERIES  
288 0 SetOfReals  
289 0 SetOfFxs  
290 0 N  
291 0 Q  
292 0 X  
293 0 xs  
294 0 xaF  
295 0 ysF  
296 0 us  
297 0 usFoelge  
298 0 0  
299 0 1  
300 0 (-1)

301 0 2  
302 0 3  
303 0 1/2  
304 0 1/3  
305 0 2/3  
306 0 Of  
307 0 If  
308 0 00  
309 0 01  
310 0 (- - 01)  
311 0 02  
312 0 01//02  
313 0 PlusAssociativity(R)  
314 0 PlusAssociativity(R)XX  
315 0 Plus0(R)  
316 0 Negative(R)  
317 0 Times1(R)  
318 0 lessAddition(R)  
319 0 PlusCommutativity(R)  
320 0 LeqAntisymmetry(R)  
321 0 LeqTransitivity(R)  
322 0 leqAddition(R)  
323 0 Distribution(R)  
324 0 A4(Axiom)  
325 0 InductionAxiom  
326 0 EqualityAxiom  
327 0 EqLeqAxiom  
328 0 EqAdditionAxiom  
329 0 EqMultiplicationAxiom  
330 0 QisClosed(Reciprocal)(Imply)  
331 0 QisClosed(Reciprocal)  
332 0 QisClosed(Negative)(Imply)  
333 0 QisClosed(Negative)  
334 0 leqReflexivity

335 0 leqAntisymmetryAxiom  
336 0 leqTransitivityAxiom  
337 0 leqTotality  
338 0 leqAdditionAxiom  
339 0 leqMultiplicationAxiom  
340 0 plusAssociativity  
341 0 plusCommutativity  
342 0 Negative  
343 0 plus0  
344 0 timesAssociativity  
345 0 timesCommutativity  
346 0 ReciprocalAxiom  
347 0 times1  
348 0 Distribution  
349 0 0not1  
350 0 lemma eqLeq(R)  
351 0 TimesAssociativity(R)  
352 0 TimesCommutativity(R)  
353 0 (Adgic)SameR  
354 0 Separation2formula(1)  
355 0 Separation2formula(2)  
356 0 Cauchy  
357 0 PlusF  
358 0 ReciprocalF  
359 0 From ==  
360 0 To ==  
361 0 FromInR  
362 0 PlusR(Sym)  
363 0 ReciprocalR(Axiom)  
364 0 LessMinus1(N)  
365 0 Nonnegative(N)  
366 0 US0  
367 0 NextXS(UpperBound)  
368 0 NextXS(NoUpperBound)

369 0 NextUS(UpperBound)  
370 0 NextUS(NoUpperBound)  
371 0 ExpZero  
372 0 ExpPositive  
373 0 ExpZero(R)  
374 0 ExpPositive(R)  
375 0 BSzero  
376 0 BSpositive  
377 0 UStelescope(Zero)  
378 0 UStelescope(Positive)  
379 0 EqAddition(R)  
380 0 FromLimit  
381 0 ToUpperBound  
382 0 FromUpperBound  
383 0 USisUpperBound  
384 0 Onot1(R)  
385 0 ExpUnbounded(R)  
386 0 FromLeq(Advanced)(N)  
387 0 FromLeastUpperBound  
388 0 ToLeastUpperBound  
389 0 XSisNotUpperBound  
390 0 ysFGreater  
391 0 ysFLess  
392 0 SmallInverse  
393 0 NatType  
394 0 RationalType  
395 0 SeriesType  
396 0 Max  
397 0 Numerical  
398 0 NumericalF  
399 0 MemberOfSeries(ImPLY)  
400 0 JoinConjuncts(2conditions)  
401 0 prop lemma imply negation  
402 0 TND

403 0 FromNegatedImPLY  
 404 0 ToNegatedImPLY  
 405 0 FromNegated(2 \* ImPLY)  
 406 0 FromNegatedAnd  
 407 0 FromNegatedOr  
 408 0 ToNegatedOr  
 409 0 FromNegations  
 410 0 From3Disjuncts  
 411 0 From2 \* 2Disjuncts  
 412 0 NegateDisjunct1  
 413 0 NegateDisjunct2  
 414 0 ExpandDisjuncts  
 415 0 SENC1  
 416 0 SENC2  
 417 0 LessLeq(R)  
 418 0 MemberOfSeries  
 419 0 memberOfSeries(Type)  
 420 2 \*(exp)\*  
 421 1 R(\*)  
 422 1 -- R(\*)  
 423 1 rec\*  
 424 2 \*/\*  
 425 2 \*  $\cap$  \*  
 426 2 \*[\*]  
 427 1  $\cup$ \*  
 428 2 \*  $\cup$  \*  
 429 1 P(\*)  
 430 1 {\*}  
 431 3 StateExpand(\*, \*, \*)  
 432 1 extractSeries(\*)  
 433 1 SetOfSeries(\*)  
 434 1 -- Macro(\*)  
 435 3 ExpandList(\*, \*, \*)  
 436 1 \*\* Macro(\*)

437 1 ++ Macro(\*)  
438 1 << Macro(\*)  
439 1 ||Macro(\*)  
440 1 01//Macro(\*)  
441 2 UB(\*,\*)  
442 2 LUB(\*,\*)  
443 2 BS(\*,\*)  
444 2 UStelescope(\*,\*)  
445 1 (\*)  
446 1 |f \* |  
447 1 |r \* |  
448 2 Limit(\*,\*)  
449 1 Union(\*)  
450 3 IsOrderedPair(\*,\*,\*)  
451 3 IsRelation(\*,\*,\*)  
452 3 isFunction(\*,\*,\*)  
453 2 IsSeries(\*,\*)  
454 1 IsNatural(\*,\*)  
455 2 OrderedPair(\*,\*)  
456 1 TypeNat(\*)  
457 1 TypeNat0(\*)  
458 1 TypeRational(\*)  
459 1 TypeRational0(\*)  
460 2 TypeSeries(\*,\*)  
461 2 Typeseries0(\*,\*)  
462 2 {\*,\*}  
463 2 <\*,\*  
464 1 (-u\*)  
465 1 -f\*  
466 1 (- - \*)  
467 1 1f/\*  
468 1 01//temp\*  
469 3 \*(\*,\*)  
470 2 ReflRel(\*,\*)

471 2  $\text{SymRel}(*, *)$   
 472 2  $\text{TransRel}(*, *)$   
 473 2  $\text{EqRel}(*, *)$   
 474 3  $[* \in *]_*$   
 475 2  $\text{Partition}(*, *)$   
 476 2  $(***)$   
 477 2  $**_f*$   
 478 2  $***$   
 479 2  $(* + *)$   
 480 2  $(* - *)$   
 481 2  $*+_f*$   
 482 2  $*-_f*$   
 483 2  $*++*$   
 484 2  $\text{R}(*)-\text{R}(*)$   
 485 2  $* \in *$   
 486 1  $|*|$   
 487 3  $\text{if}(*, *, *)$   
 488 2  $\text{Max}(*, *)$   
 489 2  $\text{Max}(*, *)$   
 490 2  $* = *$   
 491 2  $* \neq *$   
 492 2  $* \leq *$   
 493 2  $* < *$   
 494 2  $* <_f *$   
 495 2  $* \leq_f *$   
 496 2  $\text{SF}(*, *)$   
 497 2  $* == *$   
 498 2  $*!! == *$   
 499 2  $* \ll *$   
 500 2  $* \ll == *$   
 501 2  $* == *$   
 502 2  $* \subseteq *$   
 503 1  $\dot{\neg}(*)_n$   
 504 2  $* \notin *$

- 505 2 \*  $\neq$  \*
- 506 2 \*  $\dot{\wedge}$  \*
- 507 2 \*  $\dot{\vee}$  \*
- 508 2  $\exists$ \*: \*
- 509 2 \*  $\Leftrightarrow$  \*
- 510 2 {ph  $\in$  \* | \*}

*The pyk compiler, version 0.grue.20060417+ by Klaus Grue  
GRD-2006-12-15.UTC:00:32:42.052453 = MJD-54084.TAI:00:33:15.052453 =  
LGT-4672859595052453e-6*