

PRINCIPIA MATHEMATICA Pt. 1 Sec. A

*1.01
JULY 19, 1982

*1.01 Cpq=ANpq Df.

PRINCIPIA MATHEMATICA Pt. 1 Sec. A

*1.1
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*1.1 Anything implied by a true elementary proposition is true. Pp.

*1.11
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*1.11 When Ux can be asserted, where x is a real variable, and $CUxVx$ can be asserted, where x is a real variable, then Vx can be asserted, where x is a real variable. Pp.

Since I do not have access to Greek letters I have let U stand in for ϕ and V stand in for ψ here, and subsequently.

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*1.2
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*1.2 CAppp Pp. (Taut)

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*1.3
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*1.3 CqAppg Pp. (Add)

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*1.4
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*1.4 CAPqAqp Ep. (Perm)

*1.4.1
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*1.4.1 CCAppArgCAppAgr

PROOF ABBREVIATION

*1.4.1+Prop

PROOF

1 CCAppArgCAppAgr *1.4.1

This is here to make *3.48 work.

Move this in the computer file

DONE

*1.4.2
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*1.4.2 CCAgrAsrCAqrArs

PROOF ABBREVIATION

*1.4.2+Prop

PROOF

1 CCAgrAsrCAqrArs *1.4.2

This is here to make *3.48 work.

Move this to the computer file.

DATE

PRINCIPIA MATHEMATICA Pt. 1 Sec. A

*1.5
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*1.5 CAPAqrAqApr Pp. (Assoc)

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*1.6
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*1.6 CCqrCApqApr Pp. (Sum)

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*1.7
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*1.7 If p is an elementary proposition, then $\neg p$ is an elementary proposition. Pp.

PRINCIPIA MATHEMATICA Pt. 1 Sec. A

*1.71
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*1.71 If p and q are elementary propositions, Apq is an elementary proposition. Pp.

*1.72
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*1.72 If U_p and V_p are elementary propositional functions which take elementary propositions as arguments, AU_pV_p is an elementary propositional function. Pp.

*2.01

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*2.01 CCpNpNp (Abs)

PROOF ABBREVIATION

*1.2 p/Np+ (1)

(1) **1.01 q/Np; *2.01

PROOF

1 CAppp *1.2 (Taut)
p/Np
(1) 2 CANpNpNp SUB
Cpq=ANpq Df. *1.01
q/Np
CpNp=ANpNp Df.
3 CCpNpNp REP

*2.02
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*2.02 CqCpq (Simp)

PROOF ABBREVIATION

*1.3 p/Np+ (1)
(1) **1.01; *2.02

PROOF

1 CqApq *1.3 (Add)
p/Np
(1) 2 CqANpq SUB
Cpq=ANpq DE. *1.01
3 CqCpq REP

*2.03
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*2.03 CCpNqCqNp (Transp)

PROOF ABBREVIATION

*1.4 p/Np, q/Nq+(1)
 (1)+*1.01 q/Nq;*1.01 p/q, q/Np;*2.03

PROOF

- 1 CApqaqp *1.4 (Perm)
 p/Np, q/Nq
- (1) 2 CANpNqANqNp SUB
 Cpq=ANpq Df. *1.01
 q/Nq
 CpNq=ANpNq Df.
- 3 CCpNqANqNp REP
 Cpq=ANpq Df. *1.01
 p/q, q/Np
 CqNp=ANqNp Df.
- 4 CCpNqCqNp REP

*2.04
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*2.04 CCpCqrCqCpr (Comm)

PROOF ABBREVIATION

*1.5 p/Np, q/Nq+(1)

(1)+*1.01 p/q, q/r;*1.01 q/Cqr;*1.01 q/r;*1.01 p/q, q/Cpr;*2.04

PROOF

- 1 CApAqrAqApr *1.5 (Assoc)
 p/Np, q/Nq
- (1) 2 CANpANqrANqANpr SUB
 Cpq=ANpq Df. *1.01
 p/q, q/r
 Cqr=ANqr Df.
- 3 CANpCqrANqANpr REP
 Cpq=ANpq Df. *1.01
 q/Cqr
 CpCqr=ANpCqr Df.
- 4 CCpCqrANqANpr REP
 Cpq=ANpq Df. *1.01
 q/r
 Cpr=ANpr Df.
- 5 CCpCqrANqCpr REP
 Cpq=ANpq Df. *1.01
 p/q, q/Cpr
 CqCpr=ANqCpr Df.
- 6 CCpCqrCqCpr REP