Demonstration of Tests of Conversion of PM Dot Notation to Parentheses

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SECTION 0. VERIFICATION TESTS (of dot to paren dot icn)
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For each proposition is given:

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1: the PM notation with dots.
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2: the notation with parentheses

3: the Polish (with Lukasiewicz symbols) notation

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*2\cdot06\vdash p \supset q \supset q \supset r \supset p \supset r
*3\cdot47 \vdash p \supset r   q \supset s   \supset p   q   \supset r   s
*4\cdot22 \vdash p \equiv q \cdot q \equiv r \supset p \equiv r
*4\cdot41 p \lor q r \equiv p \lor q p \lor r
*4\cdot43\vdash p \equiv p \lor q p \lor \sim q
*4\cdot44 \vdash p \equiv p \lor p q
*4 \cdot 87 \vdash :: p \cdot q \cdot \supset : r : \equiv : p \cdot \supset : q \supset r : \equiv : q \cdot \supset : p \supset r : \equiv : q \cdot p \cdot \supset : r
*4 \cdot 88 \vdash p \cdot q \cdot \supset r \cdot \equiv p \cdot \supset q \supset r : \equiv q \cdot \supset p \supset r : \equiv q \cdot p \cdot \supset r
*5\cdot33 p \cdot q \supset r \equiv p \cdot p \cdot q \supset r
From Landon D. C. Elkind's Paper in Russell: Vol. 43, no. 1, page 44
*431\cdot441 \vdash p \lor q \equiv r \supset s
*431 \cdot 442 \vdash p \lor q \equiv r \supset s
*431\cdot443 \vdash p \lor q \equiv r \supset s
*431\cdot444 p: \lor : q \equiv r \supset s
*431\cdot445 \vdash p \lor q \equiv r \supset s
From same, page 54
*431 \cdot 54 \vdash p q \cdot r \cdot s \supset p \cdot s \cdot r \cdot q
check longer prop name
Propositions involving quantifiers
*9\cdot 2\vdash (x) \psi x \supset \psi y
*9\cdot21\vdash(x)\cdot\psi x\supset\phi x\supset(x)\cdot\psi x\supset(x)\cdot\phi x
*9·22\vdash: (x) \cdot \psi x \supset \phi x \cdot \supset: (\exists x) \cdot \psi x \cdot \supset \cdot (\exists x) \cdot \phi x
*9·31\vdash (\exists x) \phi x \lor (\exists x) \phi x \supset (\exists x) \phi x
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