

brochure written 2 28 III 2017

4 IV 2017

1st. week. note

Def (System denotation the  $FO(E^{M_n})$ )

The den. research system denotations the  $FO$  (in correspondence with denotations)

(uniquely) denoting next denotations this report

$$(A1) \exists x \exists x_1 x (x = y \vee x = z)$$

$$(A2) \forall x (\varphi \equiv \psi) \Rightarrow (\exists x_1 x \varphi \Rightarrow \exists x_1 x \psi)$$

$$(A3) \exists x_1 x \exists x \varphi \Rightarrow (\exists x \exists x_1 x \varphi \vee \exists x_1 x \exists x \varphi)$$

The is equality/denotation by the denotation

the system is denoting, by the T-denot,  $\varphi$ -denot

$$FO(M) \text{ is } T \varphi \text{ to } T \psi$$

Denot. system "Q" must "E" denot

Denot. system denotations in  $FO(M)$

$$(1) \varphi \equiv \psi \Rightarrow \exists x \varphi$$

$$(2) \exists x \varphi \Rightarrow \exists x \exists x_1 \varphi$$

$$(3) \varphi \vee (\varphi \vee \psi) \Rightarrow \varphi \vee \psi$$

$$(4) \varphi \vee (\varphi \vee \psi) \Rightarrow \varphi \vee \psi$$

$$(5) \varphi \vee \psi \Rightarrow \varphi \vee \psi$$

Den (1) (result - denotation)

Let us  $\exists x \varphi$ . Let us  $\exists x (\varphi \vee \psi = z)$

the denot (A1)  $\exists$