GROUP A.   Postulates for the predicate calculus.
GROUP A1.   Postulates for the propositional calculus.

1a.   $A \supset (B \supset A)$.

1b.   $(A \supset B) \supset ((A \supset (B \supset C)) \supset (A \supset C))$.

3.   $A \supset (B \supset A \& B)$.

2.   $\dfrac{A, \ A \supset B}{B.}$

4a.   $A \& B \supset A$.

4b.   $A \& B \supset B$.

5a.   $A \supset A \lor B$.

5b.   $B \supset A \lor B$.

7.   $(A \supset B) \supset ((A \supset \neg B) \supset \neg A)$.

6.   $(A \supset C) \supset ((B \supset C) \supset (A \lor B \supset C))$.

8°.   $\neg \neg A \supset A$.

GROUP A2.   (Additional) Postulates for the predicate calculus.

9.   $\dfrac{C \supset A(x)}{C \supset \forall x A(x).}$

10.   $\forall x A(x) \supset A(t)$.

11.   $A(t) \supset \exists x A(x)$.

12.   $\dfrac{A(x) \supset C}{\exists x A(x) \supset C.}$

GROUP B.   (Additional) Postulates for number theory.

13.   $A(0) \& \forall x(A(x) \supset A(x')) \supset A(x)$.

14.   $a' = b' \supset a = b$.

15.   $\neg a' = 0$.

16.   $a = b \supset (a = c \supset b = c)$.

17.   $a = b \supset a' = b'$.

18.   $a + 0 = a$.

19.   $a + b' = (a + b)'$.

20.   $a \cdot 0 = 0$.

21.   $a \cdot b' = a \cdot b + a$.

(The reason for writing "°" on Postulate 8 will be given in § 23.)

One may verify that 14—21 are formulas; and that 1—13 (or in the case of 2, 9 and 12, the expression(s) above, and the expression below, the line) are formulas, for each choice of the A, B, C, or x, A(x), C, t, subject to the stipulations given at the head of the postulate list.

The class of 'axioms' is defined thus. A formula is an *axiom*, if it has one of the forms 1a, 1b, 3—8, 10, 11, 13 or if it is one of the formulas 14—21.

The relation of 'immediate consequence' is defined thus. A formula is an *immediate consequence* of one or two other formulas, if it has the form shown below the line, while the other(s) have the form(s) shown above the line, in 2, 9 or 12.

This is the basic metamathematical definition corresponding to Postulates 2, 9 and 12, but we shall restate it with additional terminology