We have, for example,

Theorem 4.1. Let the sets B, C belong to some PRC class $\mathscr{C}$. Then so do the sets $B \cup C$, $B \cap C$, $\bar{B}$.

Proof. This is an immediate consequence of Theorem 5.1, Chapter 3.

∎

As long as the Gödel numbering functions $[x_1, \ldots, x_n]$ and $(x)_i$ are availaole, we can restrict our attention to subsets of N. We have, for example,

Theorem 4.2. Let $\mathscr{C}$ be a PRC class, and let B be a subset of N^m, $m \geq 1$. Then B belongs to $\mathscr{C}$ if and only if

$$B' = \{[x_1, \ldots, x_m] \in N \mid (x_1, \ldots, x_m) \in B\}$$

belongs to $\mathscr{C}$.

Proof. If $P_B(x_1, \ldots, x_m)$ is the characteristic function of B, then

$$P_{B'}(x) \Leftrightarrow P_B((x)_1, \ldots, (x)_m) \And Lt(x) = m$$

is the characteristic function of B', and $P_{B'}$ clearly belongs to $\mathscr{C}$ if P_B belongs to $\mathscr{C}$. On the other hand, if $P_{B'}(x)$ is the characteristic function of B', then

$$P_B(x_1, \ldots, x_m) \Leftrightarrow P_{B'}([x_1, \ldots, x_m])$$

is the characteristic function of B, and P_B clearly belongs to $\mathscr{C}$ if $P_{B'}$ belongs to $\mathscr{C}$.

∎

It immediately follows, for example, that $\{[x, y] \in N \mid HALT(x, y)\}$ is not a computable set.

Definition. The set $B \subseteq N$ is called *recursively enumerable* if there is a partially computable function g(x) such that

$$B = \{x \in N \mid g(x)\!\downarrow\}. \tag{4.1}$$

The term *recursively enumerable* is usually abbreviated *r.e.* A set is recursively enumerable just when it is the domain of a partially computable function. If $\mathscr{P}$ is a program that computes the function g in (4.1), then B is simply the set of all inputs to $\mathscr{P}$ for which $\mathscr{P}$ eventually halts. If we think of $\mathscr{P}$ as providing an algorithm for testing for membership in B, *we see* that for numbers that do belong to B, the algorithm will provide a

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