

A NEW CLASS IN BCK-ALGEBRAS

Dedicated to the late professor Shôtarô Tanaka (1928-2019)

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ABSTRACT. In BCK-algebras, it is well known that a commutative BCK-algebra is as a lower semilattice with respect to the operation \wedge . In this paper, we show that a new class in BCK-algebras which is a proper large class than the class of the commutative BCK-algebras exists, and this class is as a lower semilattice with respect to the new operation \times .