

CENTRALIZER AND NORMALIZER OF B-ALGEBRAS

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ABSTRACT. In this paper, we introduce the concepts of centralizer and normalizer of B-algebras, and we investigate some of their properties. In particular, we prove that if H is a subalgebra of a B-algebra X , then the centralizer $C(H)$ of H is a subalgebra of X , which affirms to the result of P.J. Allen, J. Neggers, and H.S. Kim that the center $Z(X)$ is a subalgebra of X . Moreover, if H is normal in X , then $C(H)$ is normal in X , which affirms to the result of A. Walendziak that $Z(X)$ is normal in X .

Key words and phrases. B-algebras, centralizer, normalizer, normal subalgebra.