

ON PSEUDO-VALUATIONS ON BE -ALGEBRAS

S. MEHRSHAD

ABSTRACT. In this paper, we study pseudo-valuations on a commutative BE -algebra and obtain some related results. We introduce a definition of convergence on a BE -algebra by using of pseudo-valuations.

REFERENCES

- [1] S.S. Ahn, Y.H. Kim and J.M. Ko: *Filters in commutative BE -algebras*, Commun. Korean Math. Soc., **27**(2012), No. 2, 2012, 233-242.
- [2] K. Iséki: *On BCI -algebras*, Kobe J. Math., **8**(1980), No. 1, 125-130.
- [3] K. Iséki and Tanaka: *An introduction to theory of BCK -algebras*, Math. Japonica, **23**(1978), 1-26.
- [4] Y.B. Jun, E.H. Roh and H.S. Kim: *On BH -algebras*, Sci. Math. Jpn., **1**(1998), 347-354.
- [5] H.S. Kim and Y.H. Kim: *On BE -algebras*, Sci. Math. Jpn. Online, e-2006, 1299-1302.
- [6] S. Mehrshad and J. Goltzarpoor: *On topological BE -algebras*, Math. Morav., **21**(2017), No. 2, 1-13.
- [7] S.R. Mukkamala: *A Course in BE -Algebras*, Springer Nature Singapore Pte Ltd, 2018.
- [8] J. Neggers and H.S. Kim: *On d -algebra*, Math. Slovaca, **49**(1999), 19-26.
- [9] A. Walendziak: *On commutative BE -algebras*, Sci. Math. Jpn. Online, e-2008, 585-588.
- [10] A. Walendziak: *On normal filters and congruence relations in BE -algebras*, Comment. Math., **52**(2012), 199-205.
- [11] K.J. Lee: *Pseudo-valuations on BE -algebras*, Appl. Math. Sci., **7**(2013), No. 125, 6199-6207.
- [12] Y.H. Yon, S.M. Lee and K.H. Kim: *On congruences and BE -relations in BE -algebras*, Int. Math. Forum, **5**(2010), No. 46, 2263-2270.

University of Zabol
Faculty of Sciences
Department of Sciences
Zabol, Iran
E-mail address: smehrshad@uoz.ac.ir

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