

Journal of Analysis and Applications

Vol. 19 (2021), No.2, pp.149-164

ISSN: 0972-5954

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URL : www.sasip.net

Some properties and identities of the q -sine sigmoid polynomials*

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Abstract. This paper plans to introduce q -sigmoid polynomials combined with q -sine function. These polynomials also contain several properties and identities. Furthermore, we are capable of deriving several symmetric properties of q -sine sigmoid polynomials using q -other polynomials.

AMS Subject Classification (2010): 33E50, 33C90, 33B10, 68T07

Keywords: q -sigmoid polynomials, q -sine sigmoid polynomials, q -cosine sigmoid polynomials

*This research was supported by Basic Science Research Program through the National Research Foundation of Korea(NRF) funded by the Ministry of Science, ICT and Future Planning(No. 2017R1E1A1A03070483).

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