

Journal of Algebra and Applied Mathematics

Vol. 19 (2021), No.2, pp.131-144

ISSN: 2319-7234

© SAS International Publications

URL : www.sasip.net

Some relationships between the q -cosine tangent polynomials and q -cosine other polynomials*

J.Y. Kang and C.S. Ryoo[†]

Abstract. In this paper, we find several properties of q -cosine tangent polynomials using q -exponential functions. Moreover, we obtain some relations between q -cosine tangent polynomials and other kinds of q -cosine polynomials, which are Bernoulli, Euler and Genocchi polynomials.

AMS Subject Classification (2010): 11B68, 11B75, 12D10.

Keywords: q -numbers, q -exponential functions, q -cosine tangent 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).

[†]Corresponding author