Abstract

In [4], the authors defined Toeplitz and Hankel matrices with Pell numbers and gave bounds for the spectral norms of them. In this study, we define Hankel matrices involving the Pell, Pell-Lucas and modified Pell sequences and investigate some properties of them. Moreover, we calculate certain norms of above mentioned matrices. Also, we give upper and lower bounds for spectral norm of Hankel matrix involving Pell, Pell-Lucas, modified Pell numbers.