

Exposé court

69 *Translations and extensions of the Nicomachus identity*

Kim, Seon-Hong (Sookmyung Women's University)

We search for Nicomachean identities by adding translation parameters, variable parameters, sequence products and adjoining further numbers to sequences. The solutions of definite and indefinite quadratic forms arise in this study of cubic equations obtained from translation parameters. Our search leads to many general Nicomachean-type identities. We also study the geometry of adjoining two numbers to sequences satisfying Nicomachean identity. This is joint work with Kenneth Stolarsky.