

Sean Bradley, Patrick Brewer, and Christopher Brazfield
Generalized arithmetic triangles via convolution,
Fibonacci Quart. **44** (2006), no. 1, 13–19.

Abstract

Pascal's Triangle is a convolution triangle; each polynomial that forms a diagonal can be generated by repeatedly convolving the polynomial $f(x) = 1$ with itself. We consider *Generalized Pascal Triangles*, convolution triangles whose generating polynomials are $f(x) = m$, where m is a positive integer. These generalized triangles share much in common with their progenitor. We investigate other means of generation and consider self-similarity along the same lines as C.T. Long's investigation of Pascal's Triangle in his 1981 article in *The Fibonacci Quarterly*.