

Calvin Long, William C. Schulz and Shiro Ando
An extension of the GCD Star of David theorem,
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Abstract

Gould's Star of David Theorem is a remarkable result that has generated much interest and a substantial literature since it first appeared in 1971. Extensions of the theorem have been proved for some hexagons of coefficients in Pascal's triangle (and generalizations thereof) having an even number of coefficients per side and for some with an odd number of coefficients per side, as well as for some other configurations. Almost all of these results are for small configurations involving only a limited number of coefficients per side. Here we prove a similar result for a hexagon with an arbitrarily large number of entries on two parallel sides and two coefficients on each of the other four sides.