

1067-11-430

Boonrod Yuttanan* (byuttan2@illinois.edu), 1409 W. Green Street, Urbana, IL 61801.

Certain Properties of the Ramanujan-Göllnitz-Gordon Continued Fraction.

We derive new identities involving the Ramanujan-Göllnitz-Gordon continued fraction that are similar to those of the famous Rogers-Ramanujan continued fraction. We also show that the sign of the coefficients of power series associated with the Ramanujan-Göllnitz-Gordon continued fraction is periodic with period 8. (Received September 17, 2010)