

Ghosh's monic septic identity

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Abstract

In this paper, I describe my monic septic identity.
The paper ends with "The End"

Introduction

The monic septic satisfies many identities, one of which is my monic identity.
In this paper, I describe my monic septic identity.

Ghosh's monic septic identity

When

$$Q \neq 0$$

Ghosh's monic septic identity is

$$\begin{aligned} x^7 + ax^6 + bx^5 + \left((a - P)(b - aP + P^2 - Q) + \frac{f - g}{Q} + Q + PQ \right) x^4 + \left(\frac{g}{Q} + \frac{(f - g)(a - P)}{Q} + PQ + Q(b - aP + P^2 - Q) \right) x^3 + \left(f + \frac{g(a - P - Q)}{Q} + (b - aP + P^2 - Q)Q \right) x^2 + fx + g \\ = \\ \left(x^4 + Px^3 + (b - aP + P^2 - Q)x^2 + \left(\frac{f - g}{Q} \right)x + \frac{g}{Q} \right) (x^3 + (a - P)x^2 + Qx + Q) \end{aligned}$$