

# Ghosh's monic quintic identity

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## Abstract

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

## Introduction

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

## Ghosh's monic quintic identity

When

$$b - aP + P^2 - Q \neq 0$$

Ghosh's monic quintic identity is

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

**The End**