Hawes4

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Parameters: a ; b ; c

Variables: x ; $y[2]$; $z[2]$

Equations:

$3z_1^2 + y_1^2 + b;$
$3z_2^2 + y_2^2 + b;$
$x + 2y_1z_1 + 3ay_1^2 + 5y_1^4 + 2cy_1;$
$x + 2y_2z_2 + 3ay_2^2 + 5y_2^4 + 2cy_2;$
$xy_1 + z_1^3 + y_1^2z_1 + ay_1^3 + y_1^5 + bz_1 + cy_1^2 - xy_2 - z_2^3 - y_2^2z_2 - ay_2^3 - y_2^5 - bz_2 - cy_2^2;$
$(6z_1^2 + 18az_1y_1 + 6y_1 - y_1^3z_1 + 6cy_1^2z_1 - 2y_1^2)(3z_2^2y_2 + 9ay_2^2z_2 + 45y_2^4z_2 - y_2^3 - 3xz_2 + by_2) - (6z_2^2 + 18az_2y_2 + 60y_2^3z_2 + 6cy_2^2z_2 - 2y_2^2)(3z_1^2y_1 + 9ay_1^2z_1 + 45y_1^4z_1 - y_1^3 - 3xz_1 + by_1);$

Communicated by Wendy Hawes and Chris Gibson (University of Liverpool).

References

[1] D. Bini and B. Mourrain. Polynomials test suite. 1996.