Hawes1

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Parameters: a ; b

Variables: x ; A ; B

Equations:

$(x^2 - A)^2 + (x^3 + bx - B)(x^3 + bx - B - a)^2;$
$4x(x^2 - A) + (3x^2 + b)(x^3 + bx - B - a)(3(x^3 + bx - B) - a);$
$12x^2 - 4A + 6x(x^3 + bx - B - a)^2 + 4(3x^2 + b)^2(x^3 + bx - B - a) + 2(x^3 + bx - B)(3x^2 + b)^2 + 12x(x^3 + bx - B)(x^3 + bx - B - a);$
$24x + 6(x^3 + bx - B - a)^2 + 72x(x^3 + bx - B - a)(3x^2 + b) + 6(3x^2 + b)^3 + 36x(x^3 + bx - B)(3x^2 + b) + 12(x^3 + bx - B)(x^3 + bx - B - a);$

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

References

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