



solve{(1/2)(y^2-2xy-2)+(4/30)(x^3)==0,(1/2)(2xy-x^2+2)+(4/30)(y^3)==0}

=

Extended Keyboard

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Examples

Random

Input interpretation:

solve

$$\frac{1}{2}(y^2 - 2xy - 2) + \frac{4}{30}x^3 = 0$$
$$\frac{1}{2}(2xy - x^2 + 2) + \frac{4}{30}y^3 = 0$$

Results:

Fewer roots

More roots

More digits

$x \approx -11.1901$

$x \approx -0.849174$

$x \approx 0.789279$

$x \approx -1.14427$

$x \approx 3.07012$

$x \approx -0.200234 - 1.273590 i$

$x \approx -0.200234 + 1.273590 i$

$x \approx 4.86231 - 5.87017 i$

$x \approx 4.86231 + 5.87017 i$

$y \approx 11.1901$

$y \approx 0.849174$

$y \approx -0.789279$

$y \approx -3.07012$

$y \approx 1.14427$

$y \approx 0.200234 - 1.273590 i$

Implicit plot:

$$\frac{2x^3}{15} - xy + \frac{y^2}{2} - 1 = 0$$
$$-\frac{x^2}{2} + xy + \frac{2y^3}{15} + 1 = 0$$

Sum of roots:

0

Product of roots:

1

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Related Queries:

= series of (1/2 (y^2 - 2 x y - 2) + (4 x^3)/30) wrt x

= d^2/dx^2 (1/2 (y^2 - 2 x y - 2) + (4 x^3)/30)

= resultant((1/2 (y^2 - 2 x y - 2) + (4 x^3)/30) - 0, x...

= equation solver

= directional derivative of 1/2 (2 x y - x^2 + 2) + (4...



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