

Let your math skills blossom. Unlock Step-by-Step



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

 $\int_{\Sigma^{a}}^{\pi}$  Extended Keyboard

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Examples

**Random** 

Input interpretation:

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

Results:

Fewer roots

More roots

More digits

 $x \approx -11.1901$ 

 $x \approx -0.849174$ 

 $x \approx 0.789279$ 

 $x \approx 3.07012$ 

 $x \approx -1.14427$ 

 $x \approx -0.200234 - 1.273590 i$ 

 $x \approx -0.200234 + 1.273590 i$ 

 $x \approx 4.86231 + 5.87017 i$ 

 $x \approx 4.86231 - 5.87017 i$ 

 $y \approx 11.1901$ 

 $y \approx 0.849174$ 

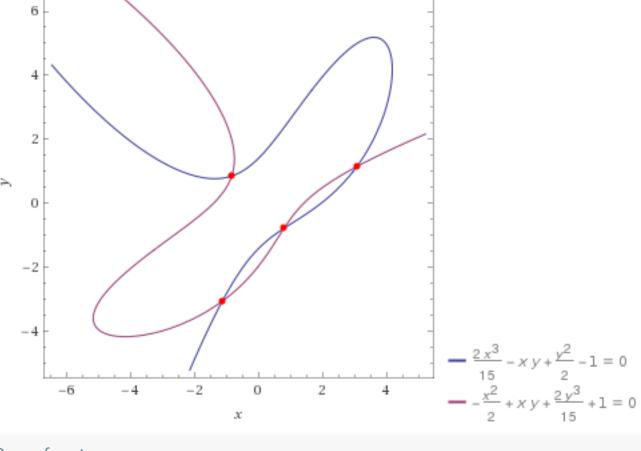
 $y \approx -0.789279$ 

 $y \approx -3.07012$ 

 $y \approx 1.14427$ 

 $y \approx 0.200234 - 1.273590 i$ 

Implicit plot:



Sum of roots:

0

Product of roots:

1

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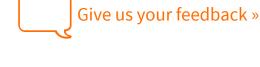
= series of  $(1/2 (y^2 - 2 x y - 2) + (4 x^3)/30)$  wrt x =  $d^2/dx^2 (1/2 (y^2 - 2 x y - 2) + (4 x^3)/30)$ 

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

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





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