WolframAlpha computational intelligence

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

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Input interpretation:

solve

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

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

Results: Fewer roots More roots More digits

$x \approx -11.1901$

$x \approx -0.849174$

$x \approx 0.789279$

$x \approx -1.14427$

$x \approx 3.07012$

$x \approx -0.200234 - 1.273590\,i$

$x \approx -0.200234 + 1.273590\,i$

$x \approx 4.86231 - 5.87017\,i$

$x \approx 4.86231 + 5.87017\,i$

$y \approx 11.1901$

$y \approx 0.849174$

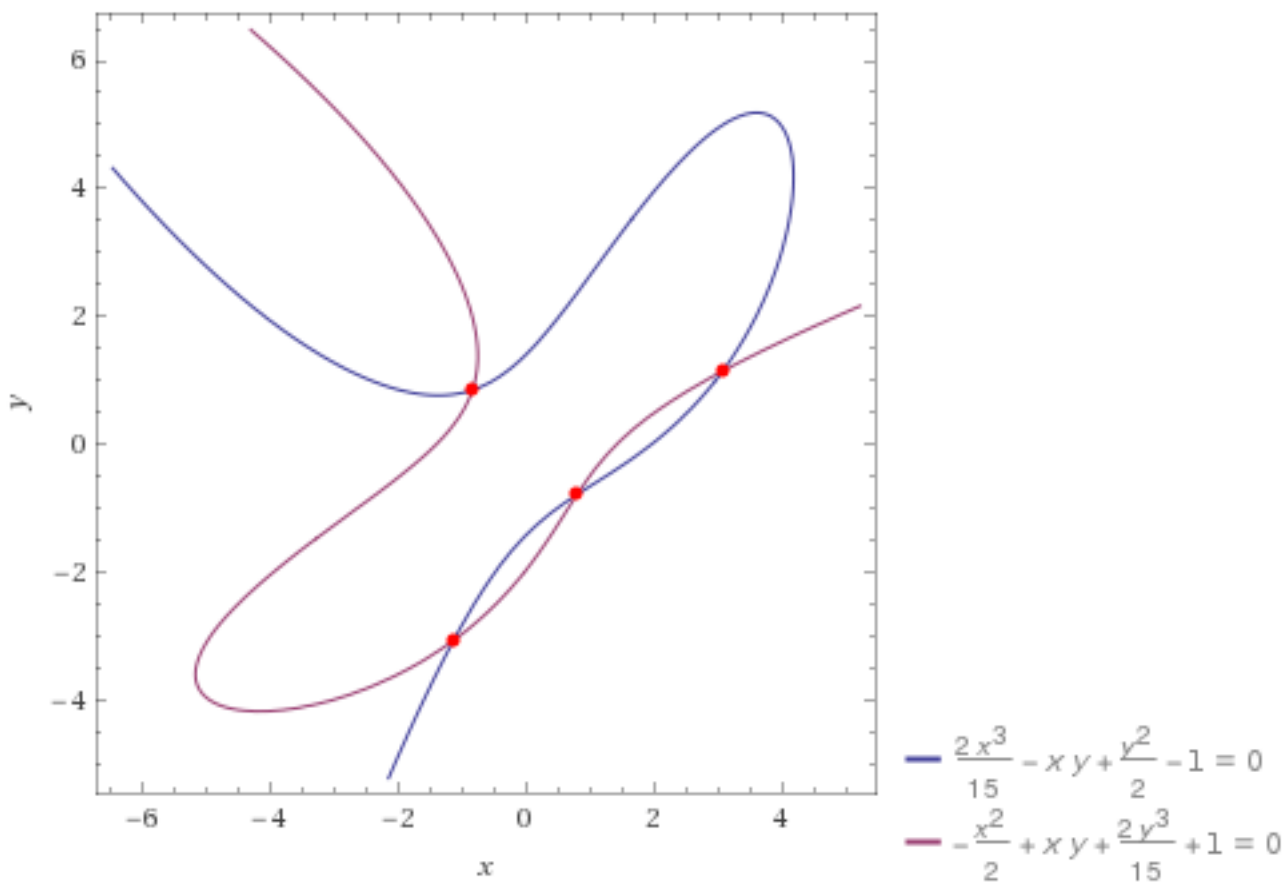
$y \approx -0.789279$

$y \approx -3.07012$

$y \approx 1.14427$

$y \approx 0.200234 - 1.273590\,i$

Implicit plot:



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…