WolframAlpha computational intelligence

solve{(1/2)(y^2-2xy-1.75)+(4/30)(x^3)==0,(1/2)(2xy-x^2+2)+(4/30)(y^3)==0}

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Input interpretation:

solve

$$\frac{1}{2}\left(y^2-2xy-1.75\right)+\frac{4}{30}x^3=0$$

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

Results: Fewer roots More roots More digits

$x \approx -11.1949$

$x \approx -1.19982$

$x \approx -0.879504$

$x \approx 0.884098$

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$x \approx 2.98781$

$x \approx -0.160824 - 1.204637\,i$

$x \approx -0.160824 + 1.204637\,i$

$x \approx 4.86199 - 5.88111\,i$

$x \approx 4.86199 + 5.88111\,i$

$y \approx 11.1929$

$y \approx -3.11036$

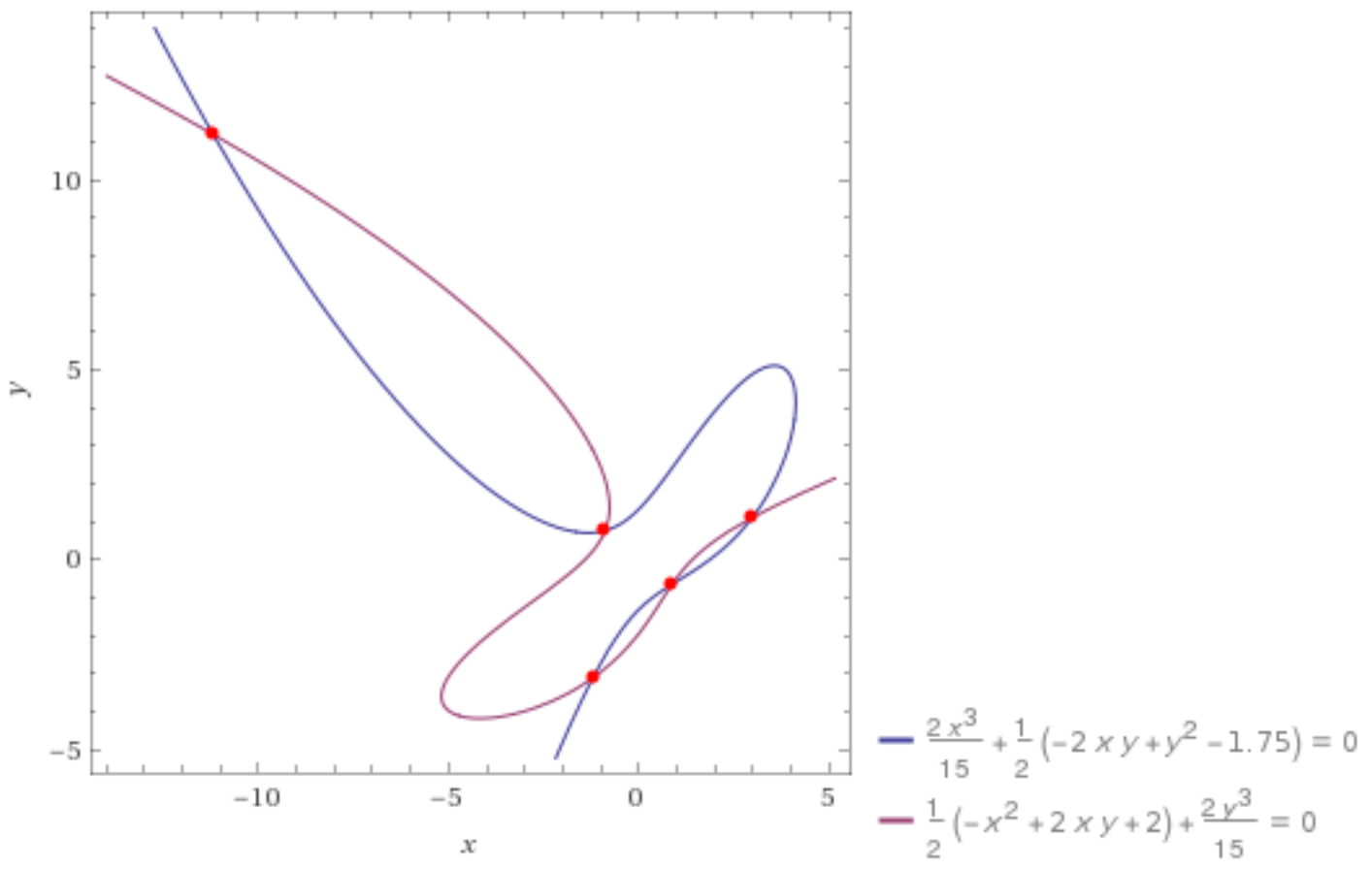
$y \approx 0.765168$

$y \approx -0.648009$

$y \approx 1.09984$

$y \approx 0.218827 - 1.275450\,i$

Implicit plot:



Sum of roots:

0

Product of roots:

1

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Related Queries:

= integral (1/2 (2 x y - x^2 + 2) + (4 y^3)/30) dx
= series of (1/2 (2 x y - x^2 + 2) + (4 y^3)/30) wrt y
= manipulate c in 1/2 (2 x y - x^2 + 2) + (4 y^3)/30…
= d^2/dy^2 (1/2 (2 x y - x^2 + 2) + (4 y^3)/30)
= integral (1/2 (2 x y - x^2 + 2) + (4 y^3)/30) dy