WebAssign
Hw 34 (10.3)(2): Polar Coordinates (Homework)

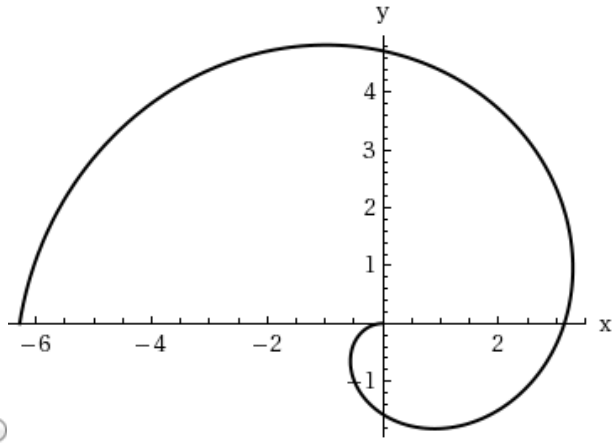
Yinglai Wang
MA 162 Spring 2012, section 321, Spring 2012
Instructor: Jonathan Montano

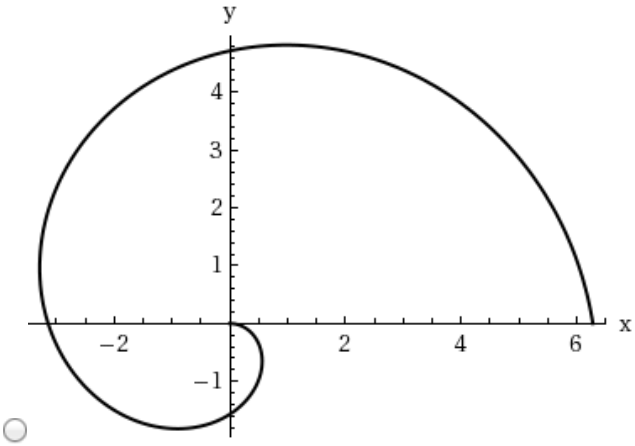
Current Score : 20 / 20 **Due :** Thursday, April 19 2012 11:55 PM EDT

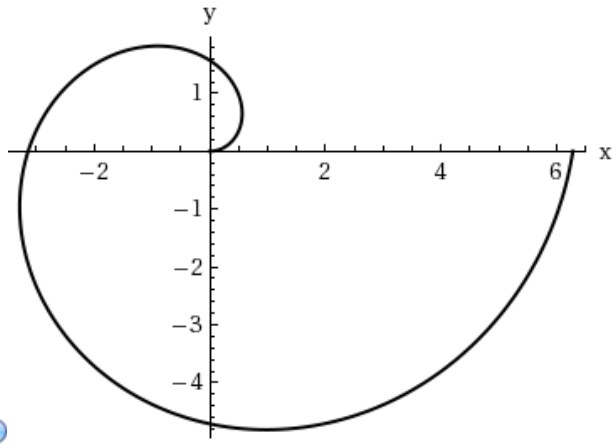
1. 4/4 points | Previous Answers SCalcET7 10.3.033.

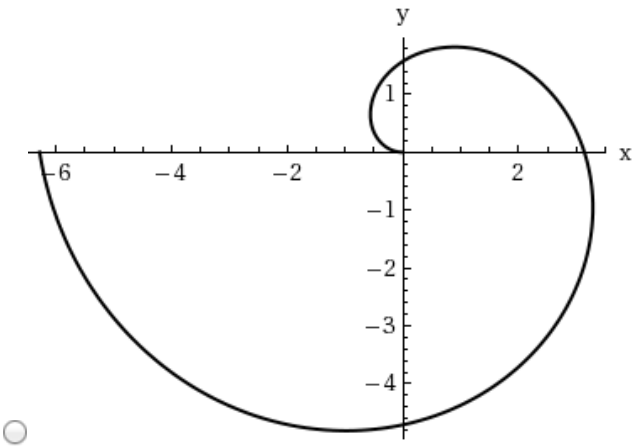
Sketch the curve with the given polar equation by first sketching the graph of r as a function of θ in Cartesian coordinates.

$r = \theta, \quad \theta \geq 0$









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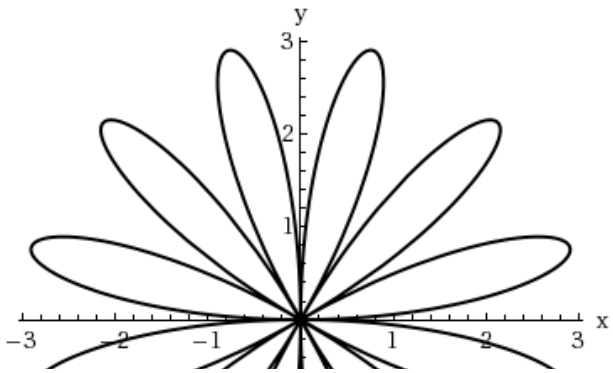
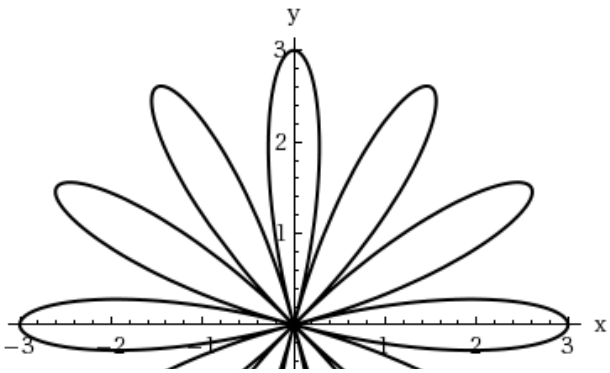
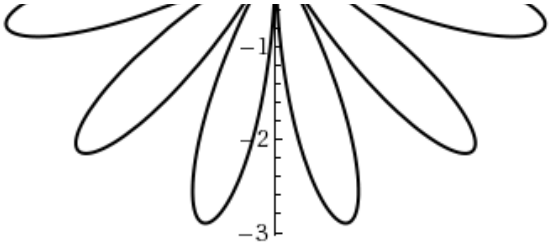
2. 4/4 points | Previous Answers SCalcET7 10.3.035.

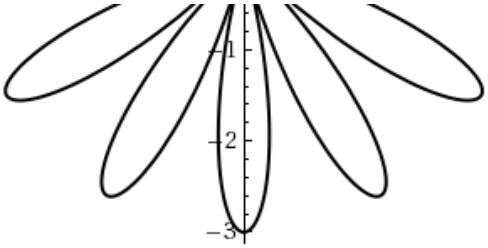
Sketch the curve with the given polar equation by first sketching the graph of r as a function of θ in Cartesian coordinates.

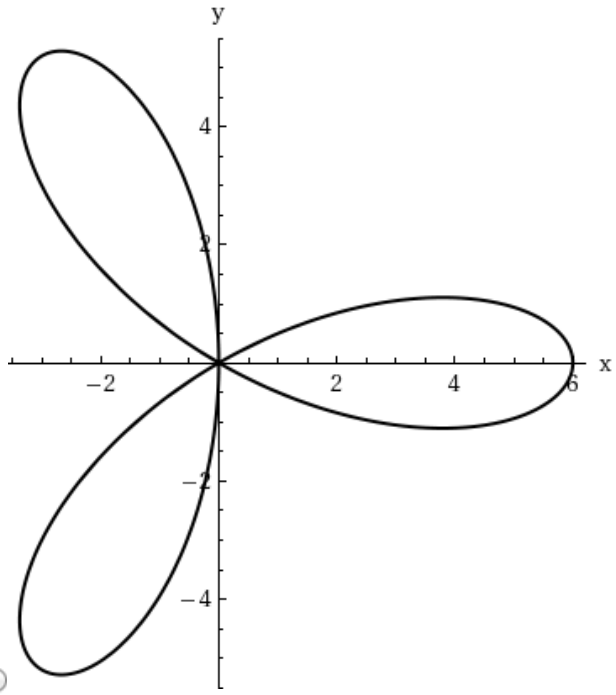
$r = 3 \sin 6\theta$

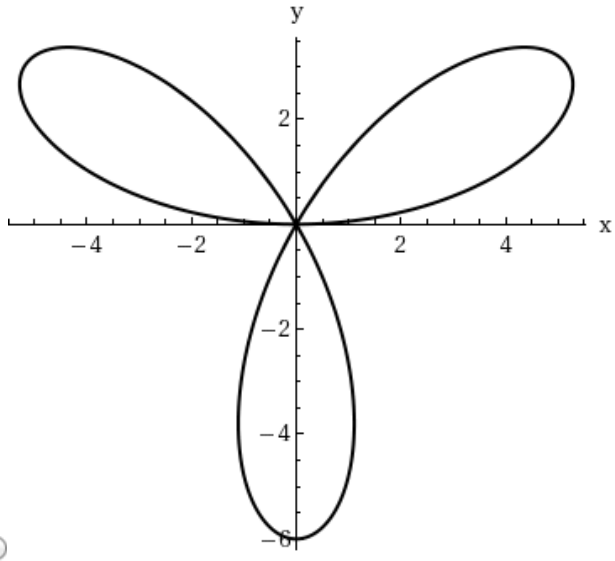












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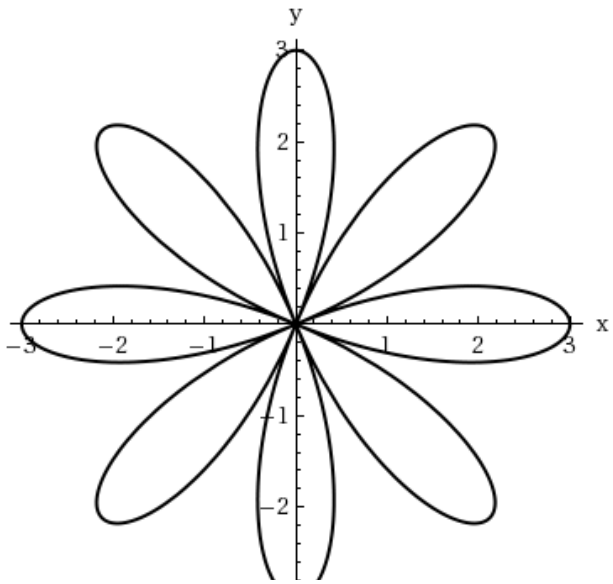
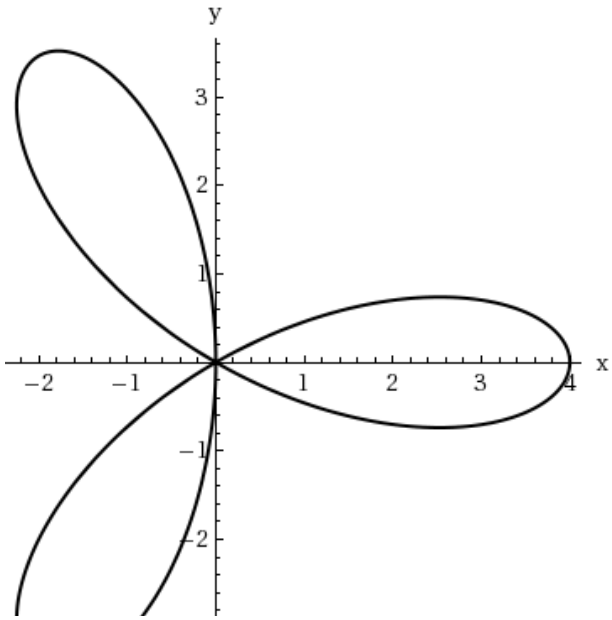
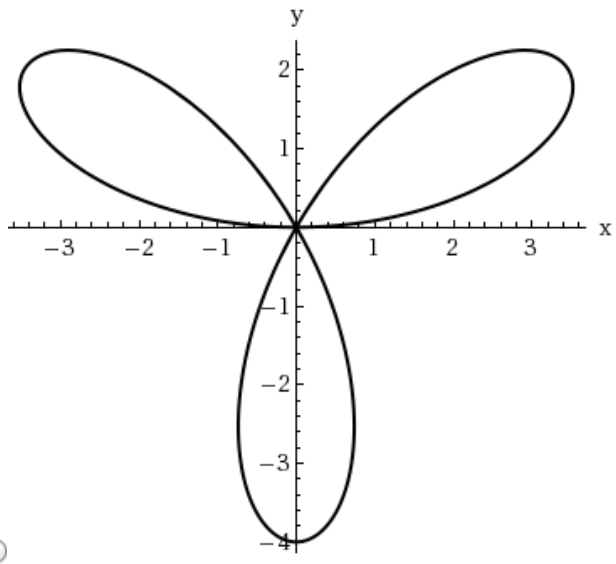
3. 4/4 points | Previous Answers SCalcET7 10.3.037.

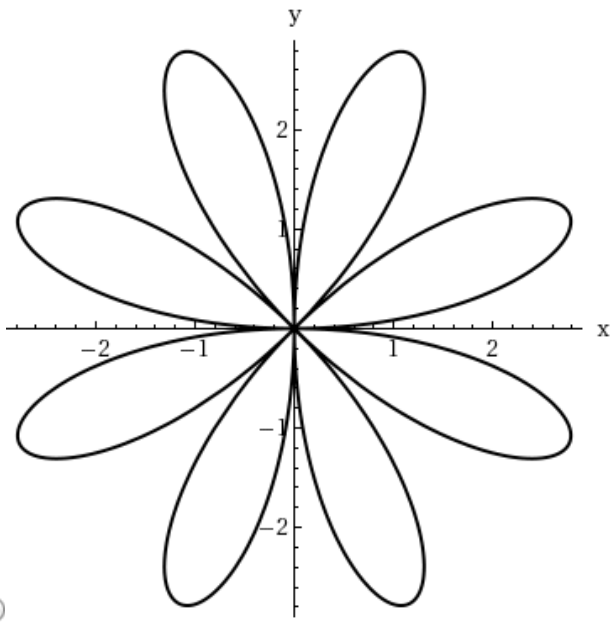
Sketch the curve with the given polar equation by first sketching the graph of r as a function of θ in Cartesian coordinates.

$r = 3\cos 4\theta$









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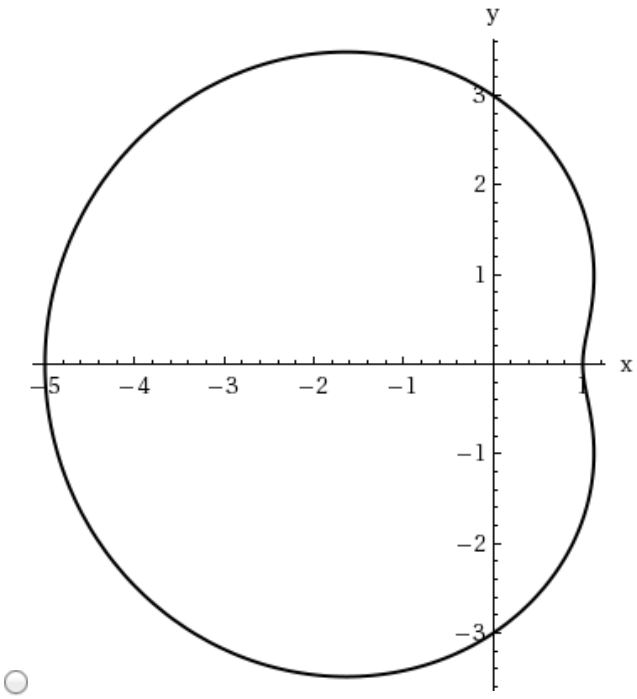
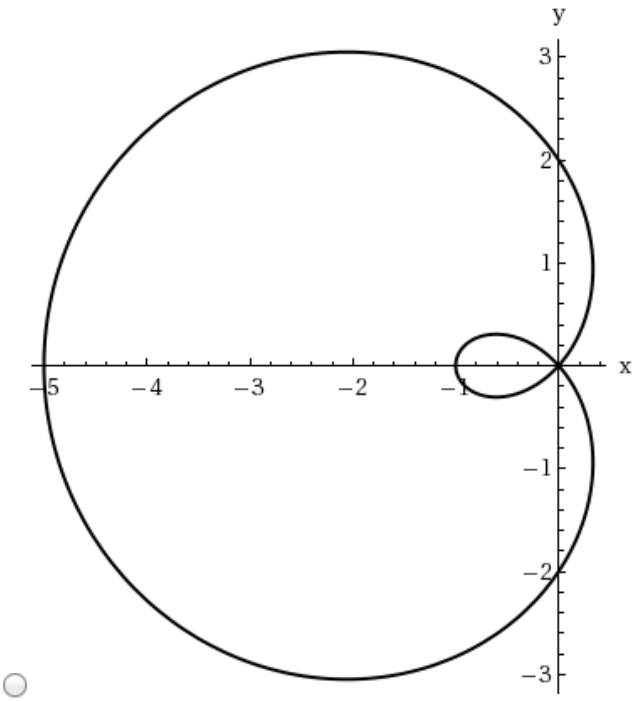
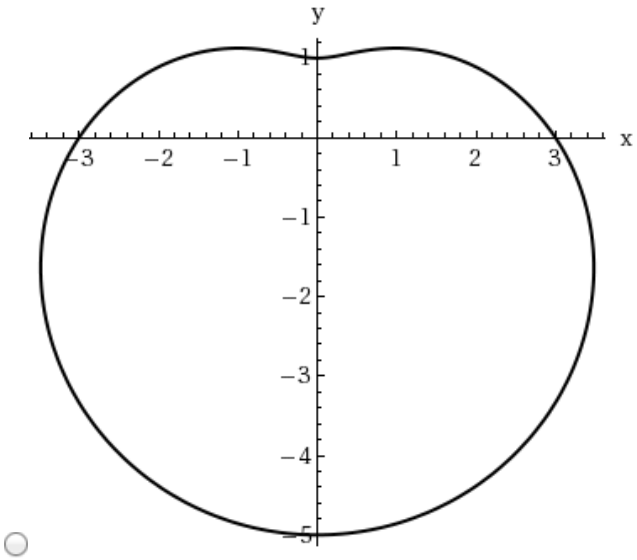
4. 4/4 points | Previous Answers SCalcET7 10.3.039.

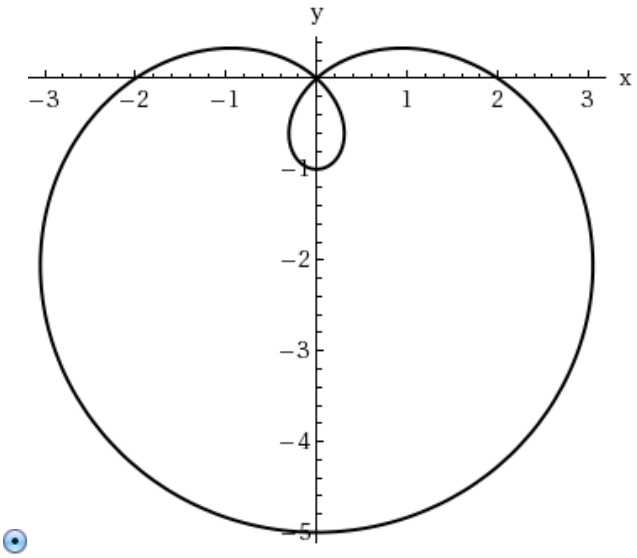
Sketch the curve with the given polar equation by first sketching the graph of r as a function of θ in Cartesian coordinates.

$r = 2 - 3\sin\theta$









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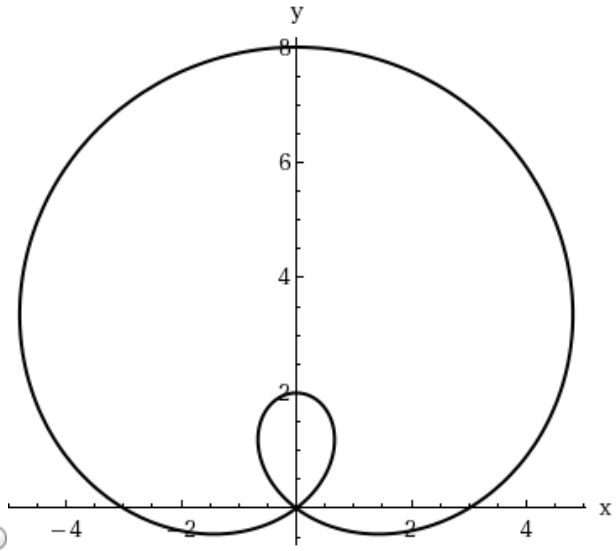
5. 4/4 points | Previous Answers SCalcET7 10.3.040.

Sketch the curve with the given polar equation by first sketching the graph of r as a function of θ in Cartesian coordinates.

$r = 5 + 3\sin\theta$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x
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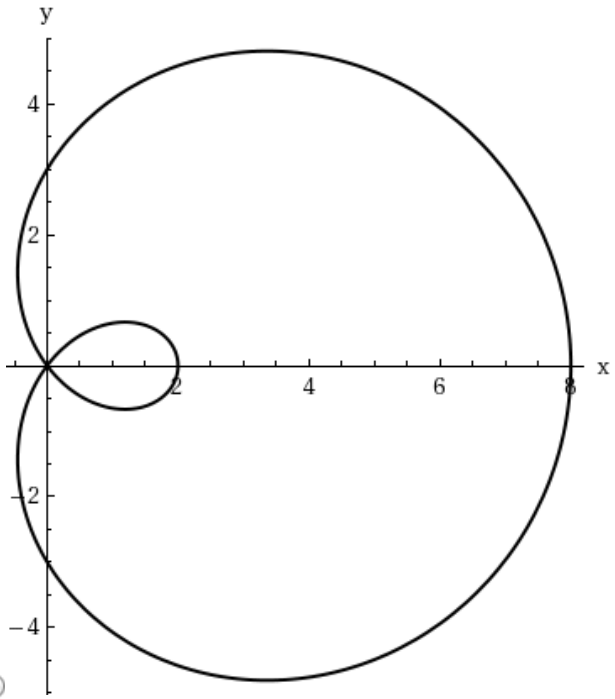
6
4
2
−4
−2
2
4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x
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−4
−2
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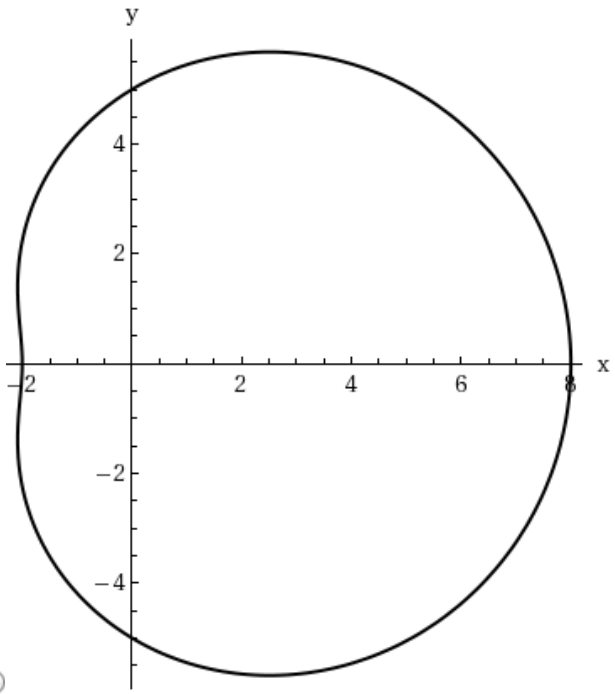
4
6
8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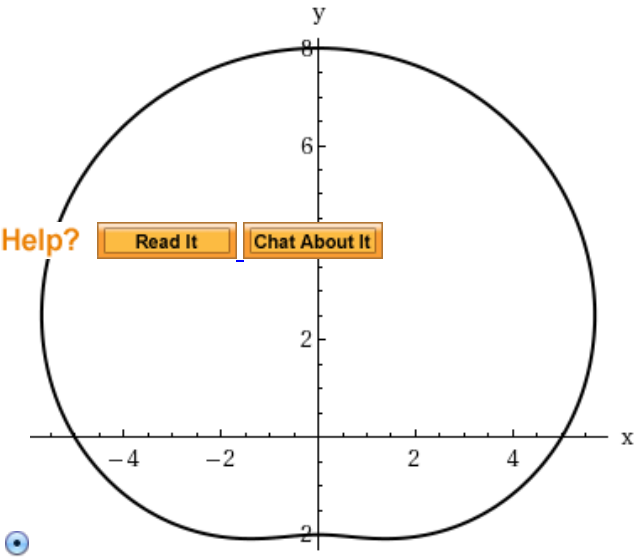

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