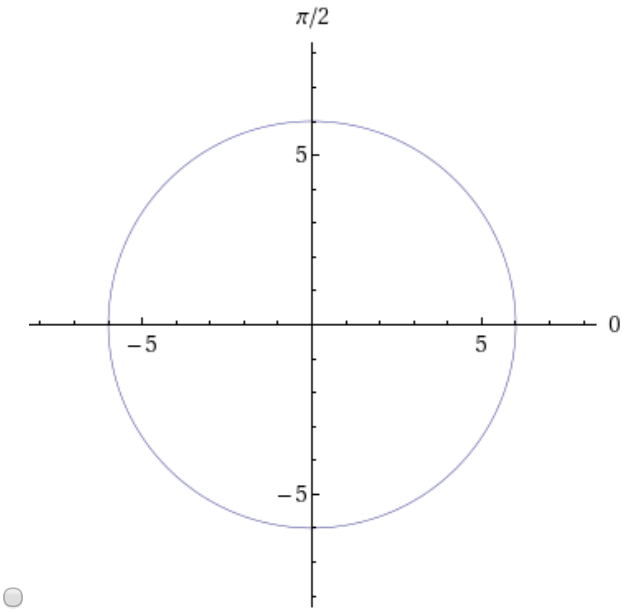
WebAssign
10.4 (Homework)

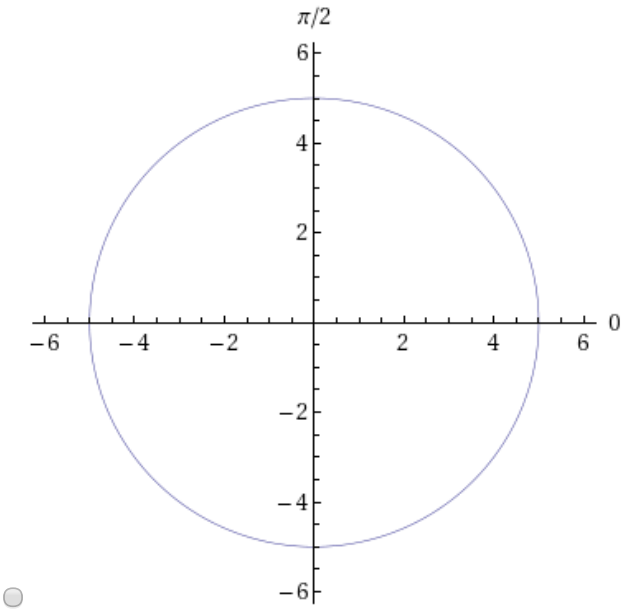
Current Score : – / 100 **Due :** Tuesday, June 27 2017 11:59 PM CDT

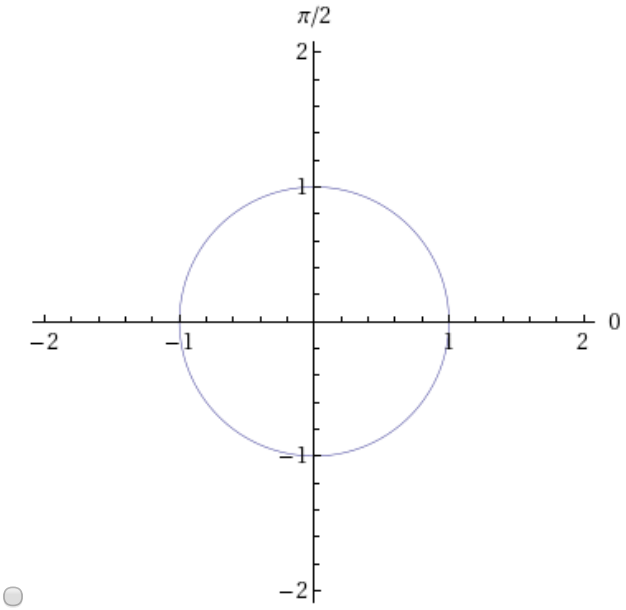
1. –/10 pointsLarCalcET6 10.4.023.

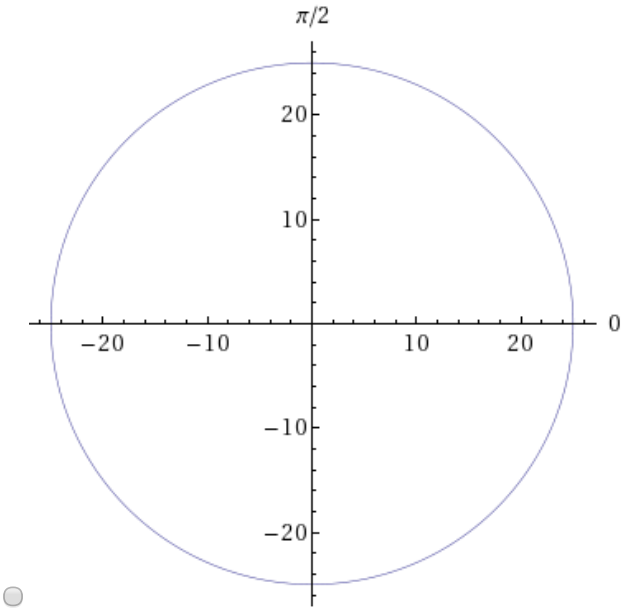
Convert the rectangular equation to polar form and select its graph.

$x^2 + y^2 = 25$









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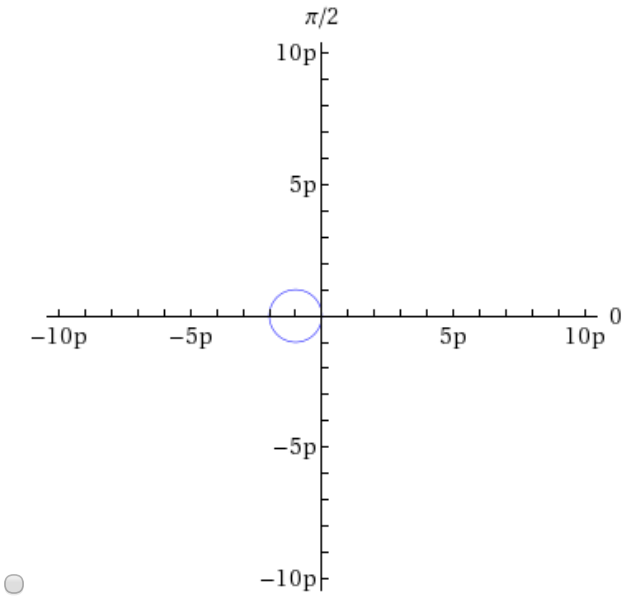
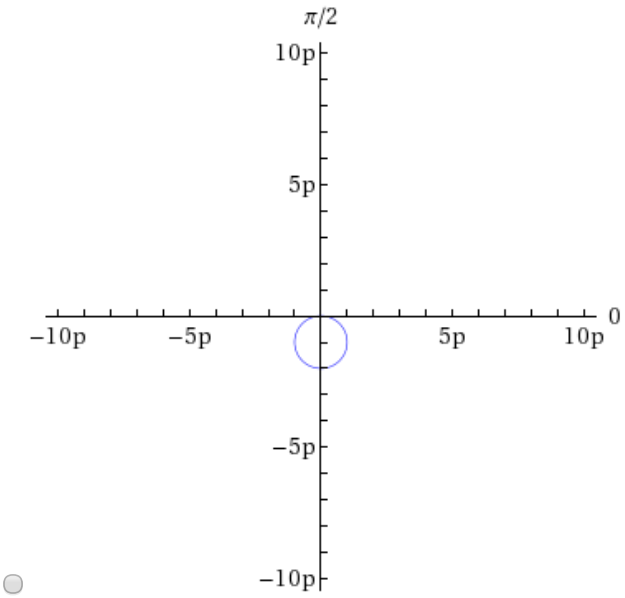
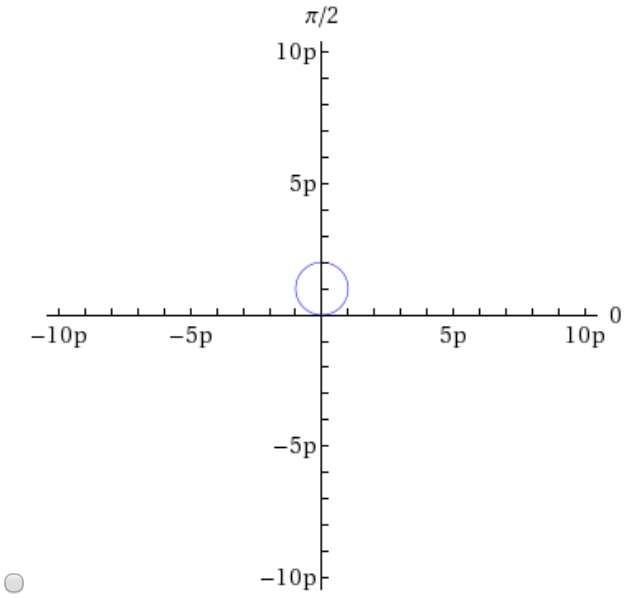
2. –/10 pointsLarCalcET6 10.4.026.

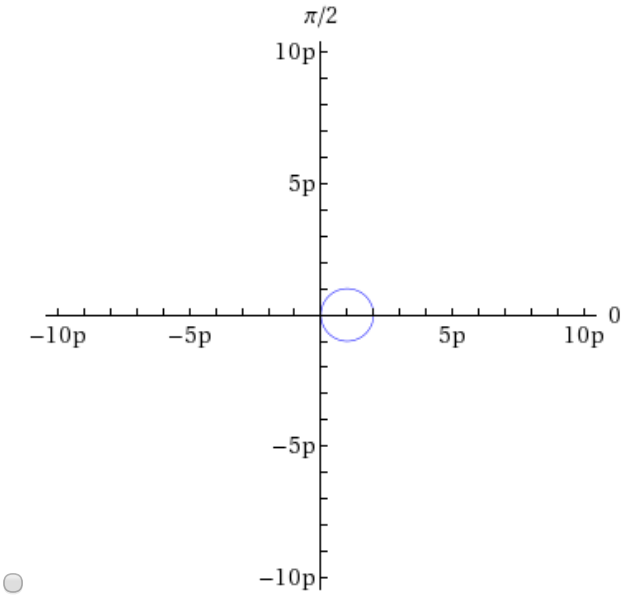
Convert the rectangular equation to polar form and sketch its graph. (Select the correct graph.)

$x^2 + y^2 - 2px = 0$









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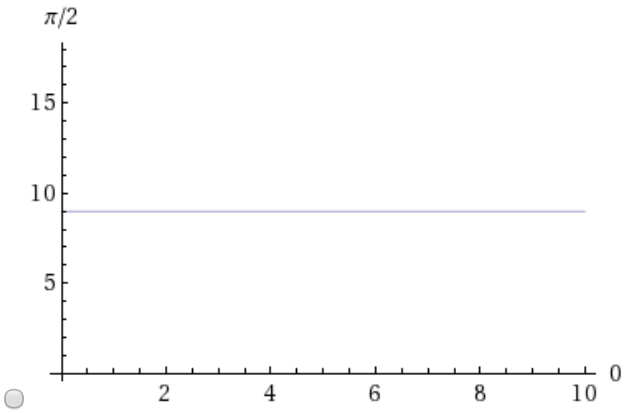
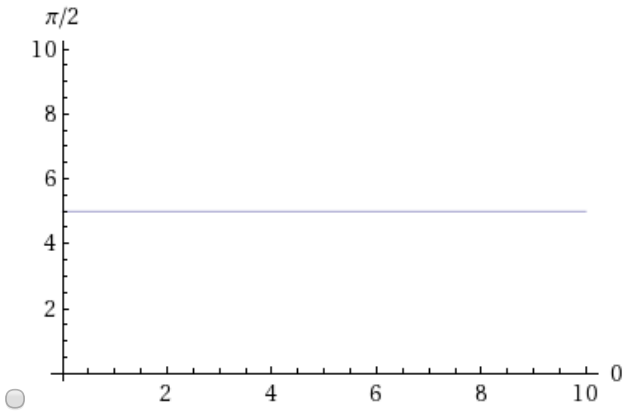
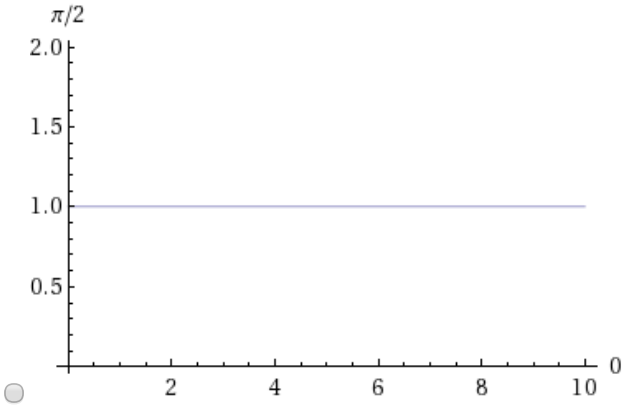
3. –/10 pointsLarCalcET6 10.4.027.

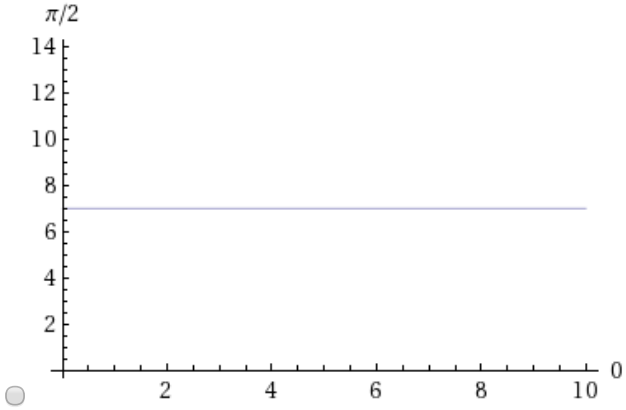
Convert the rectangular equation to polar form and sketch its graph.

$y = 7$









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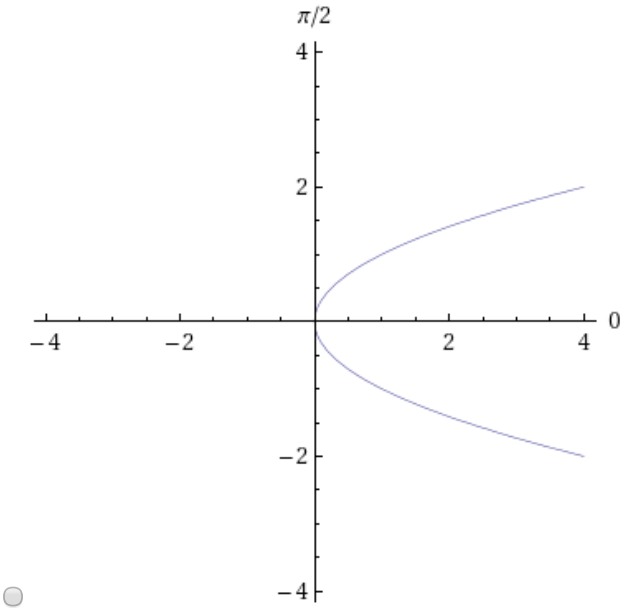
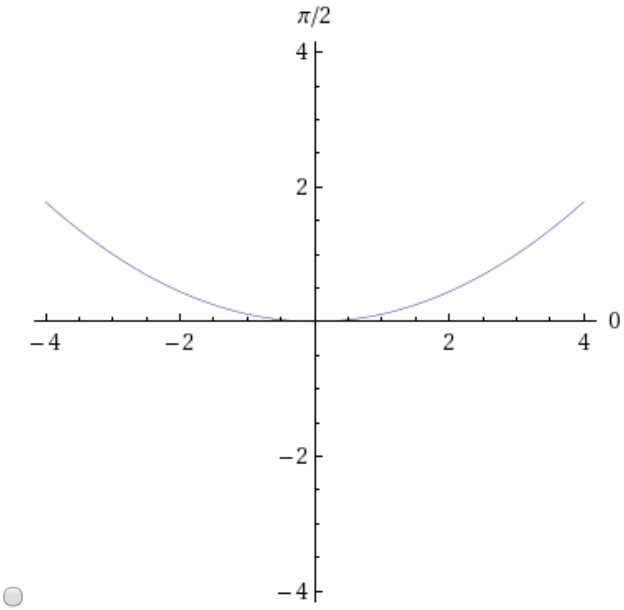
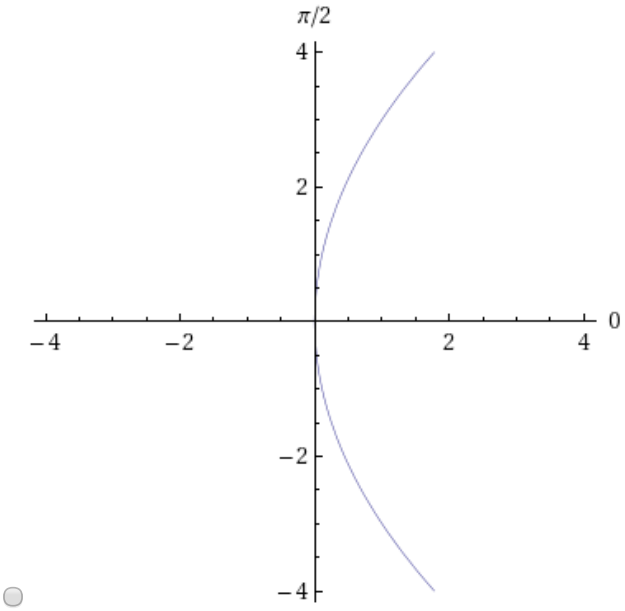
4. –/10 pointsLarCalcET6 10.4.031.

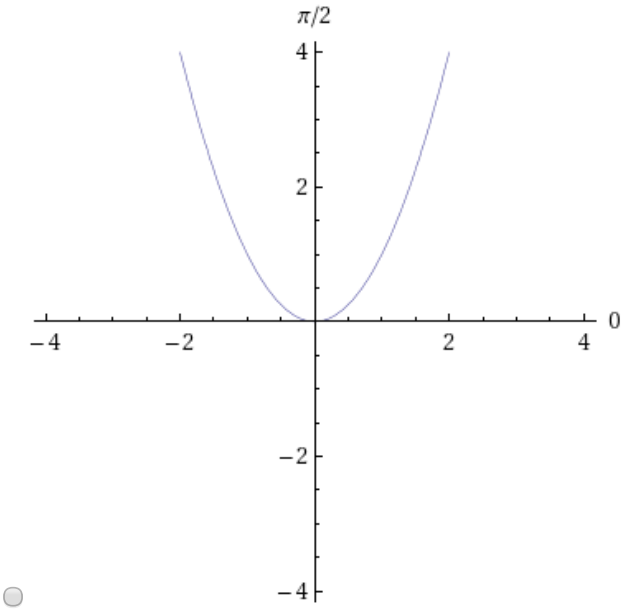
Convert the rectangular equation to polar form and sketch its graph.

$y^2 = 9x$









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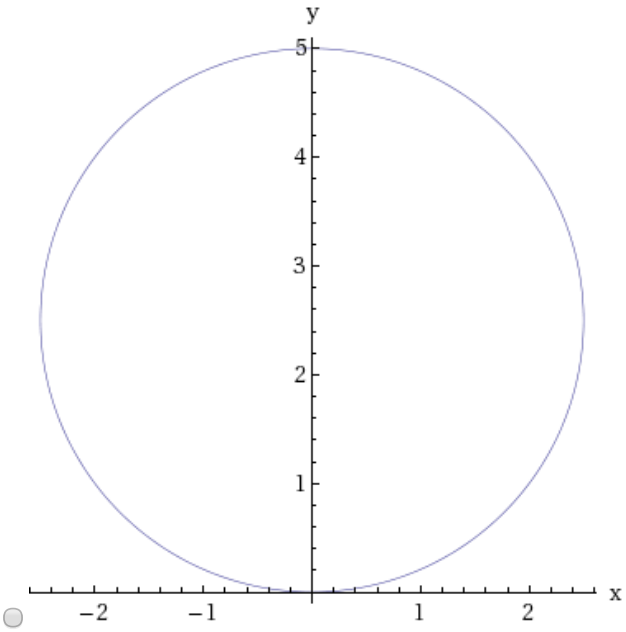
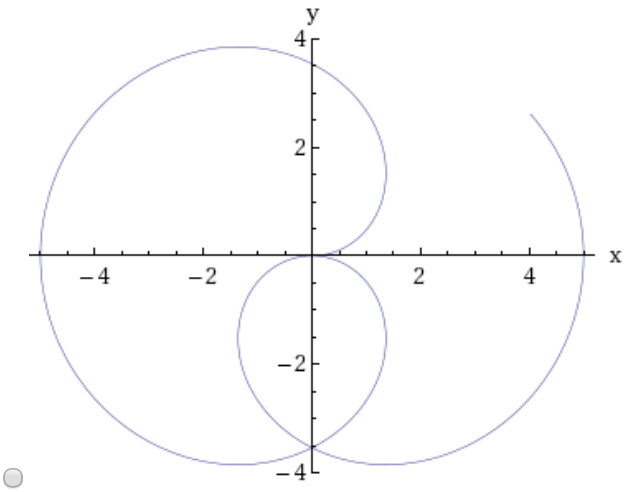
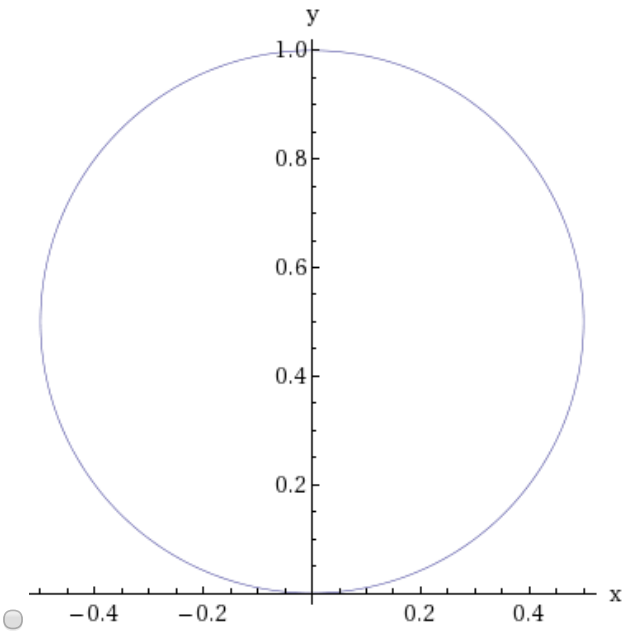
5. –/10 pointsLarCalcET6 10.4.035.

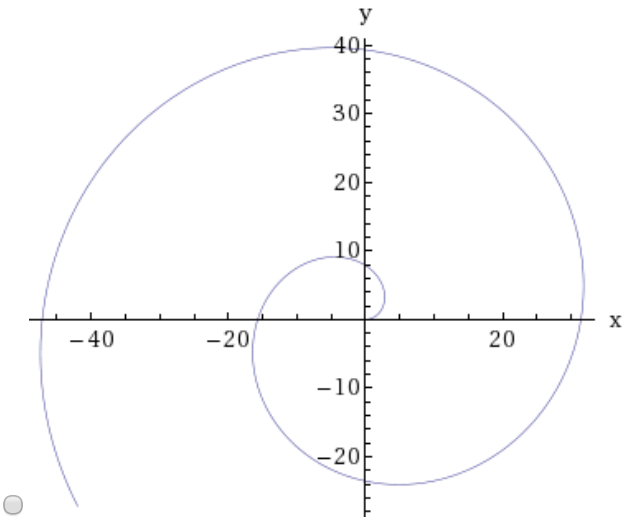
Convert the polar equation to rectangular form and sketch its graph.

$r = 5 \sin(\theta)$









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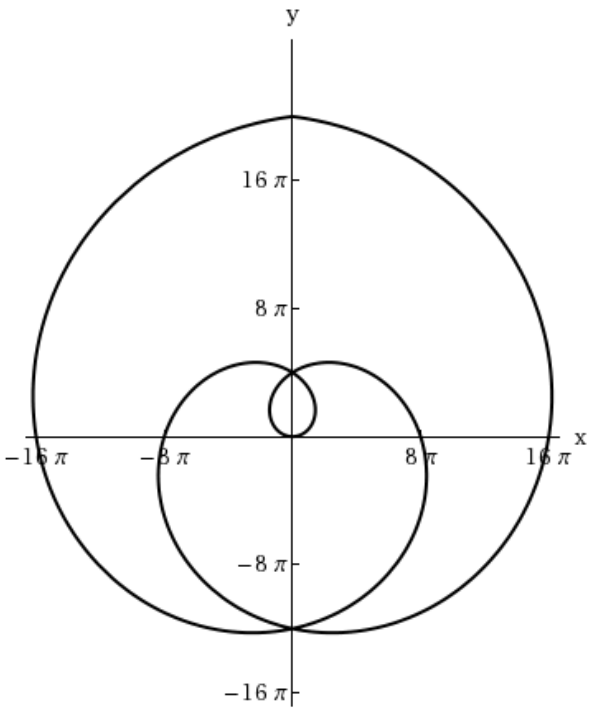
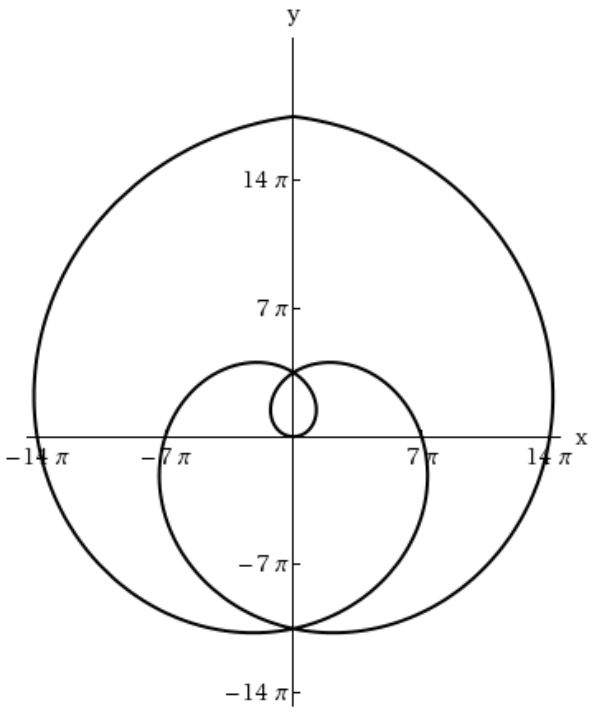
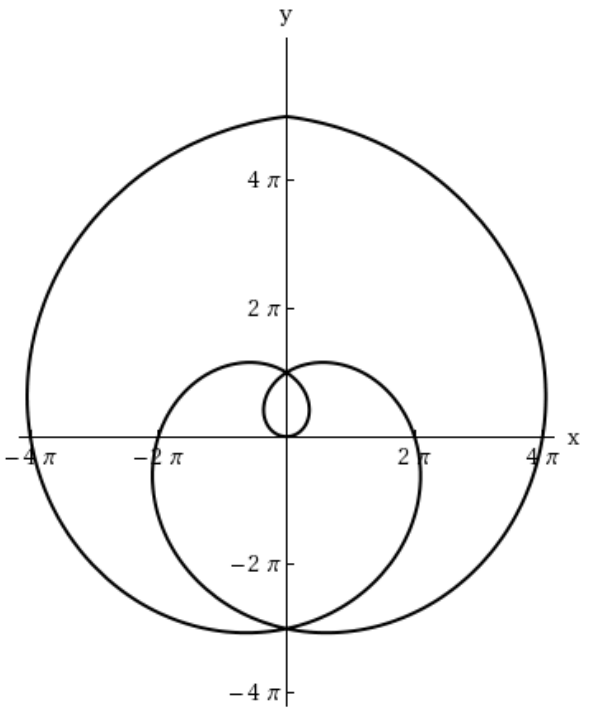
6. –/10 pointsLarCalcET6 10.4.037.

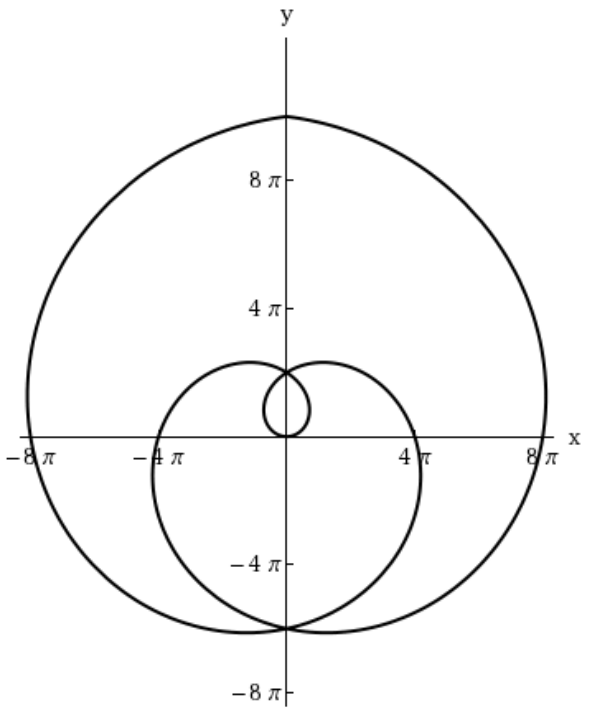
Convert the polar equation to rectangular form and sketch its graph.

$r = 2\theta$









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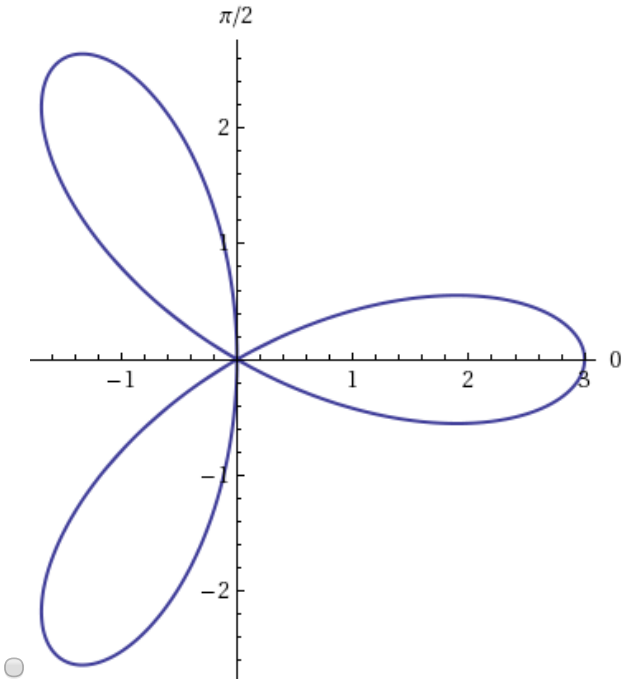
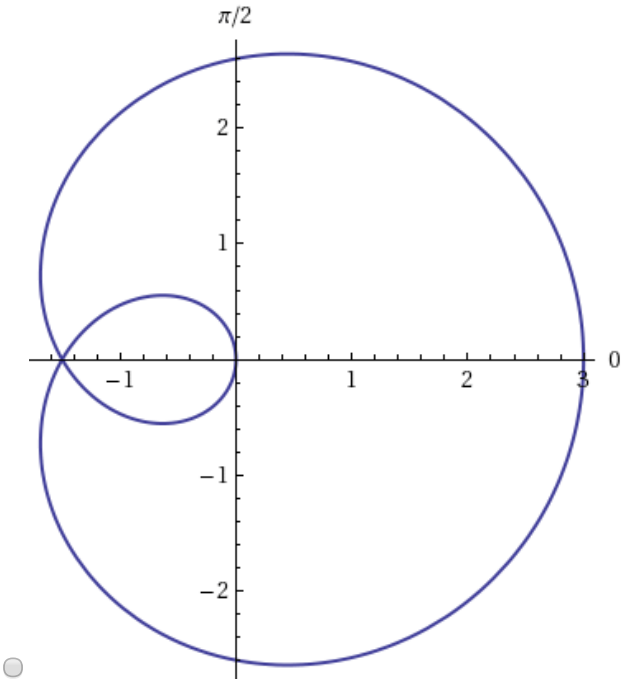
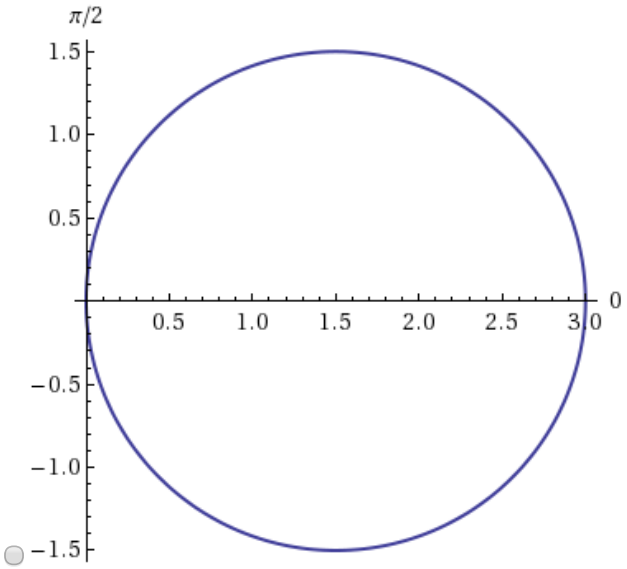
7. –/10 pointsLarCalcET6 10.4.073.

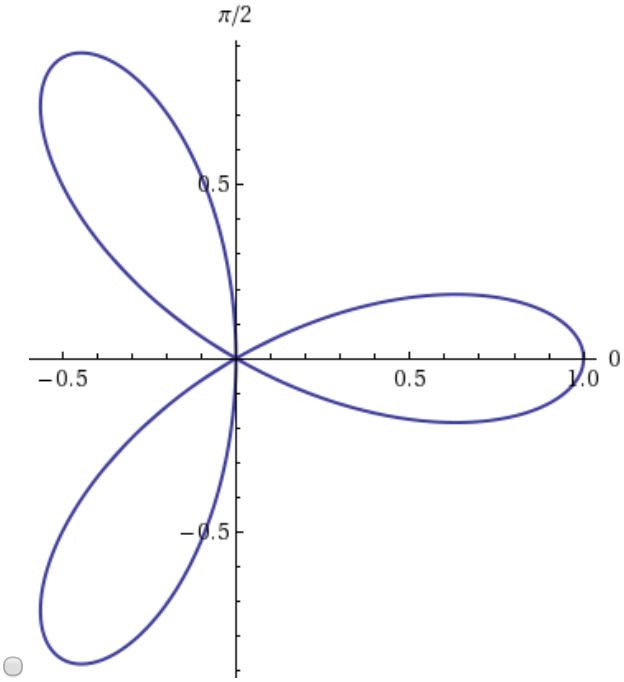
Sketch a graph of the polar equation.

$r = 3 \cos 3\theta$









Find the tangents at the pole. ($0 \le \theta \le \pi$. Enter your answers as a comma-separated list.)

$\theta =$

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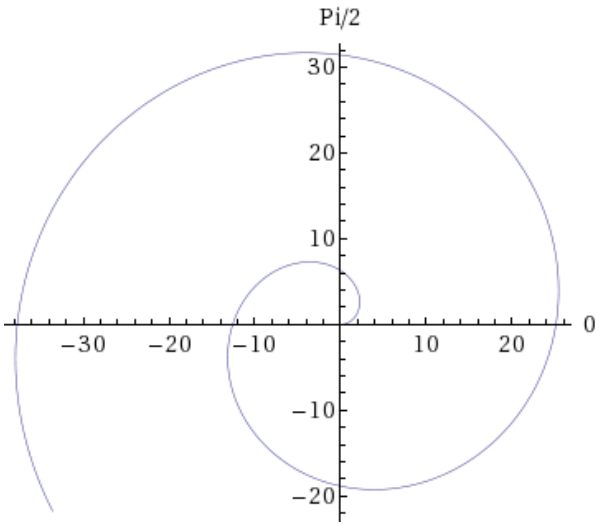
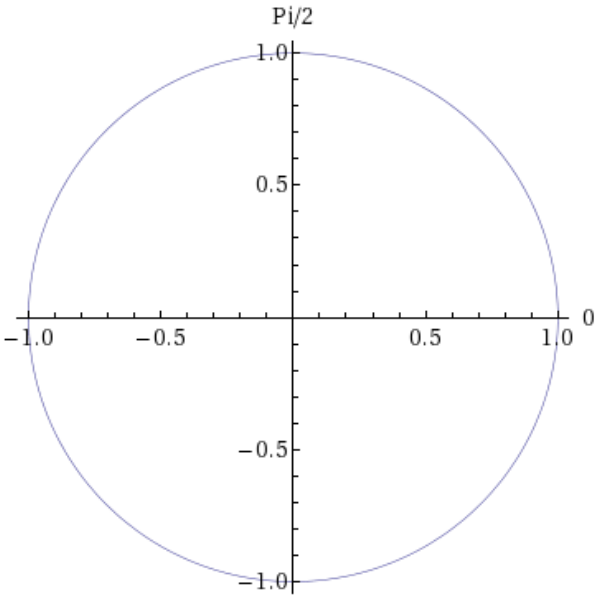
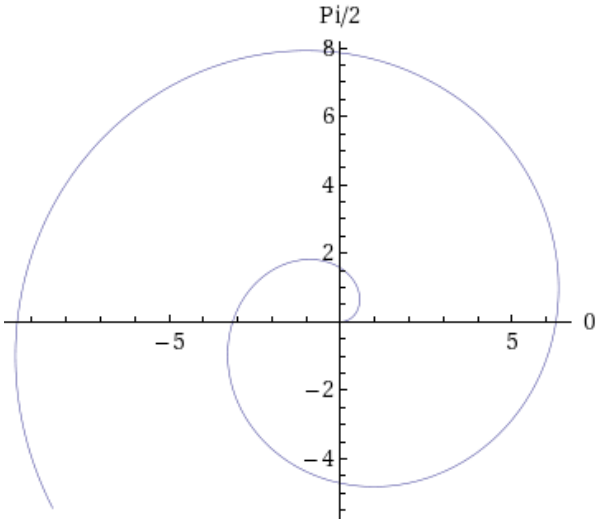
8. –/10 pointsLarCalcET6 10.4.077.

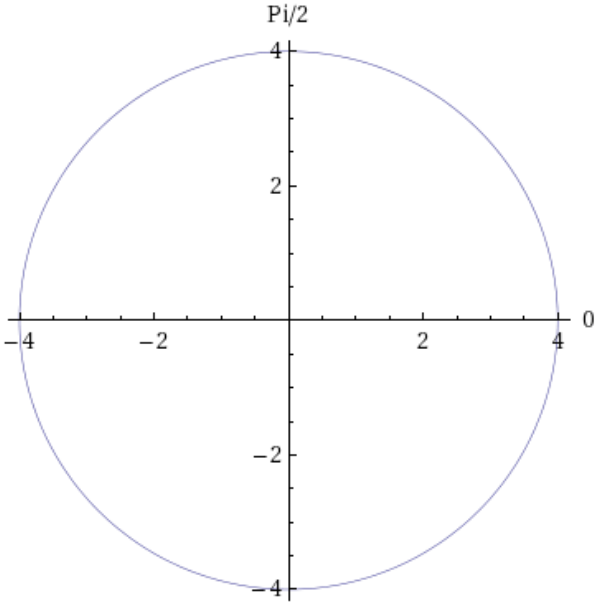
Sketch a graph of the polar equation.

$r = 4$









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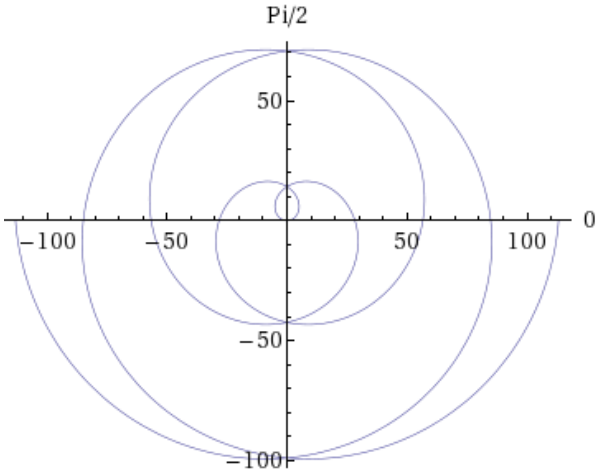
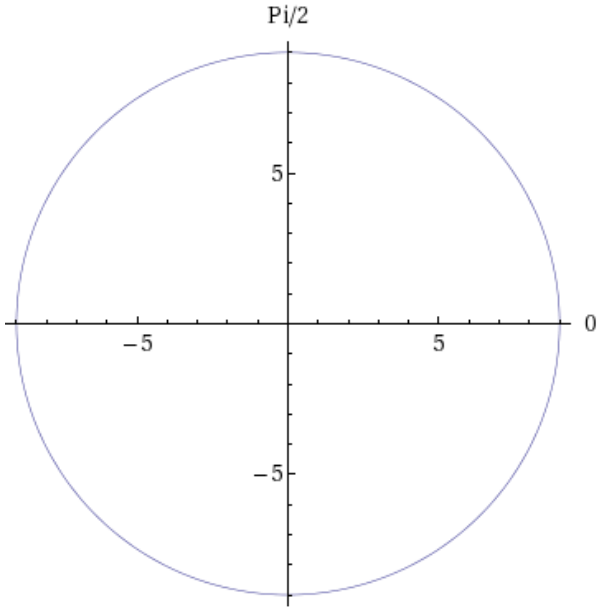
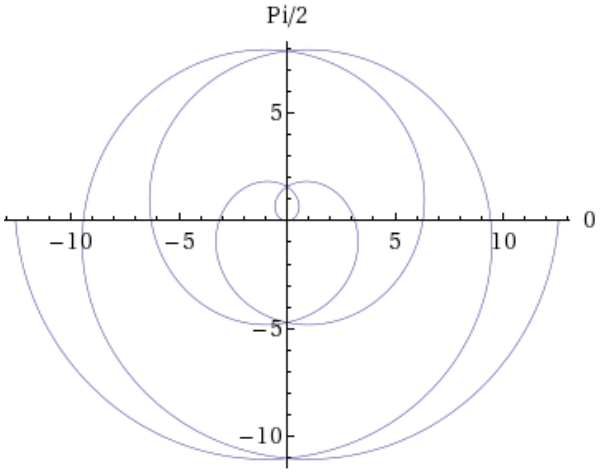
9. –/10 pointsLarCalcET6 10.4.085.

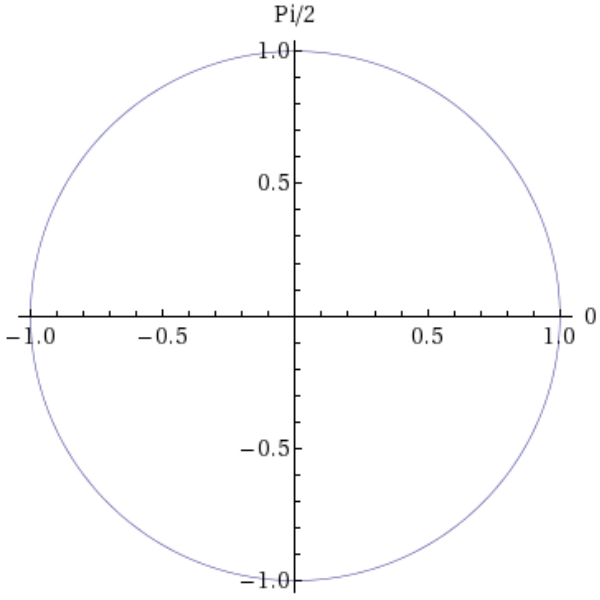
Sketch a graph of the polar equation.

$r = 9\theta$









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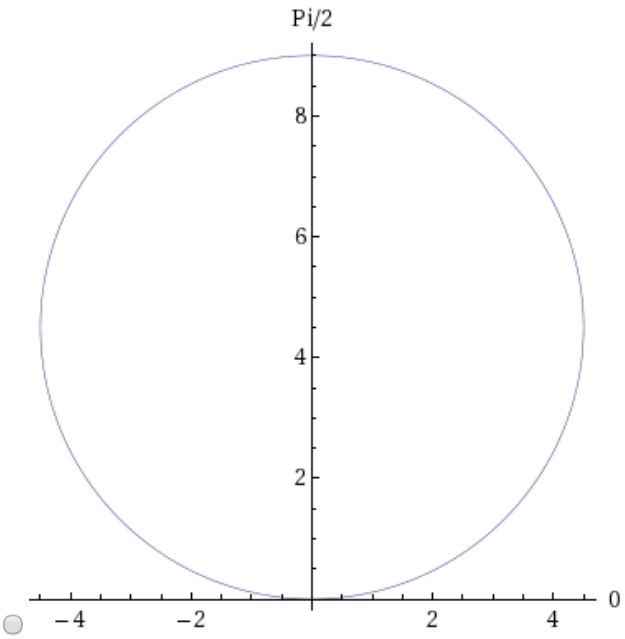
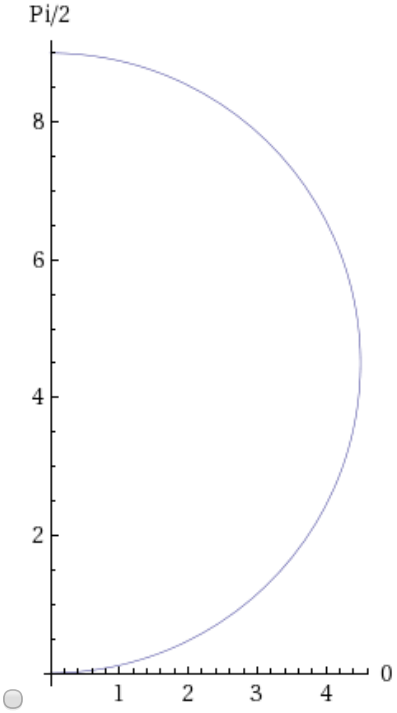
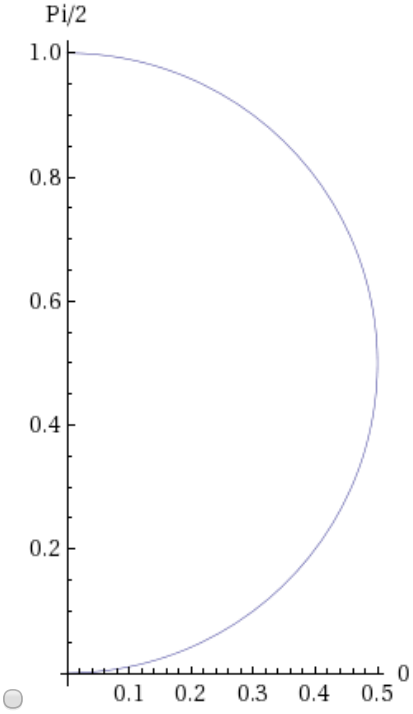
10.–/10 pointsLarCalcET6 10.4.097.

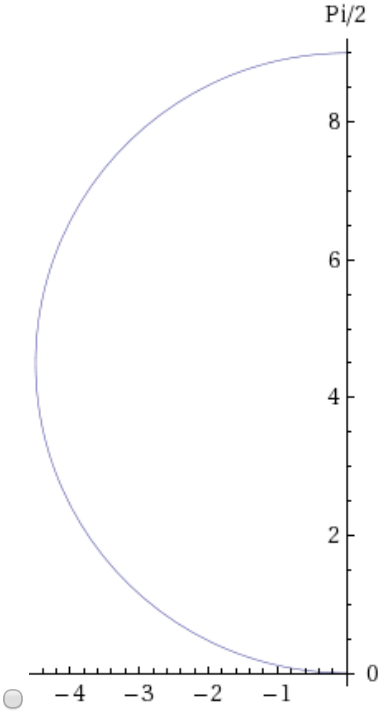
Sketch the graph of $r = 9\sin(\theta)$ over each interval.

(a) $0 \le \theta \le \frac{\pi}{2}$

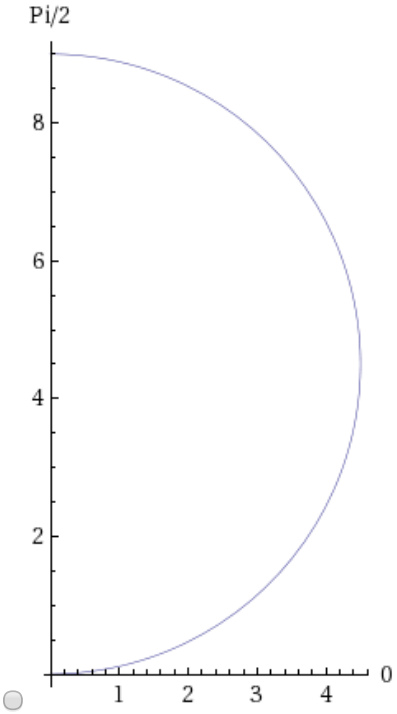


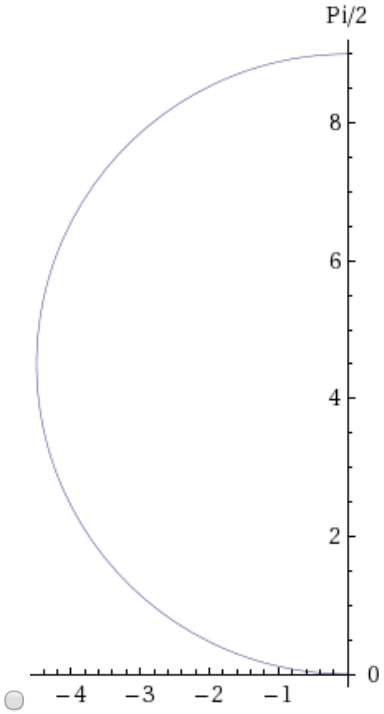


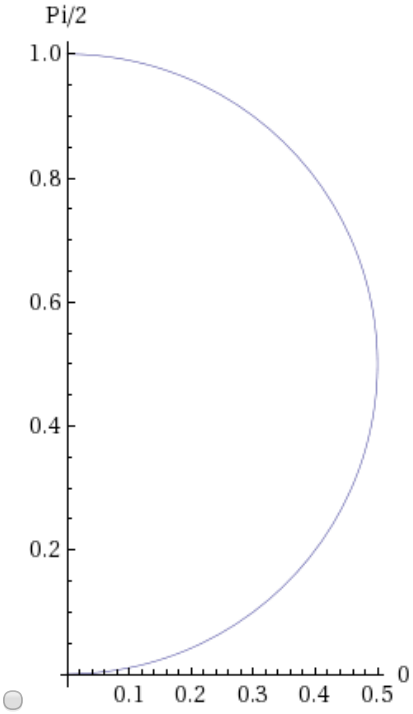


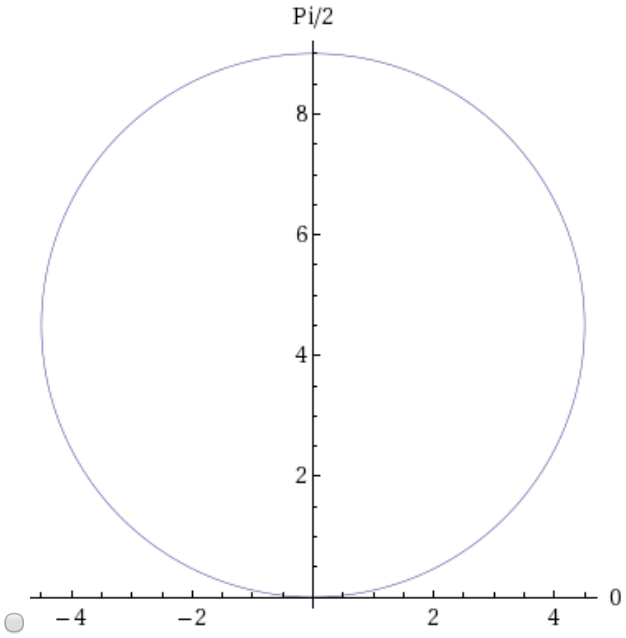


(b) $\frac{\pi}{2} \le \theta \le \pi$

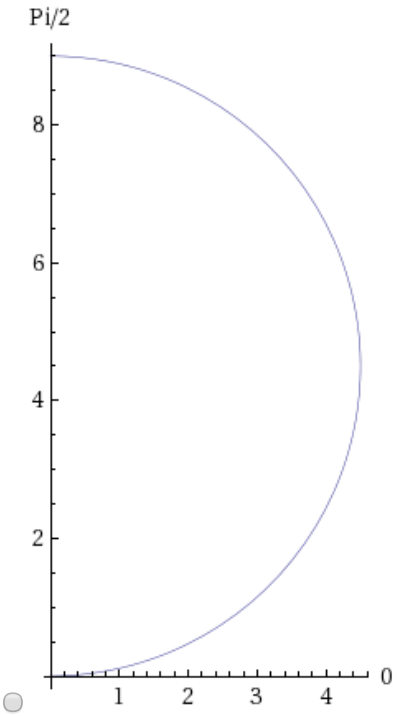


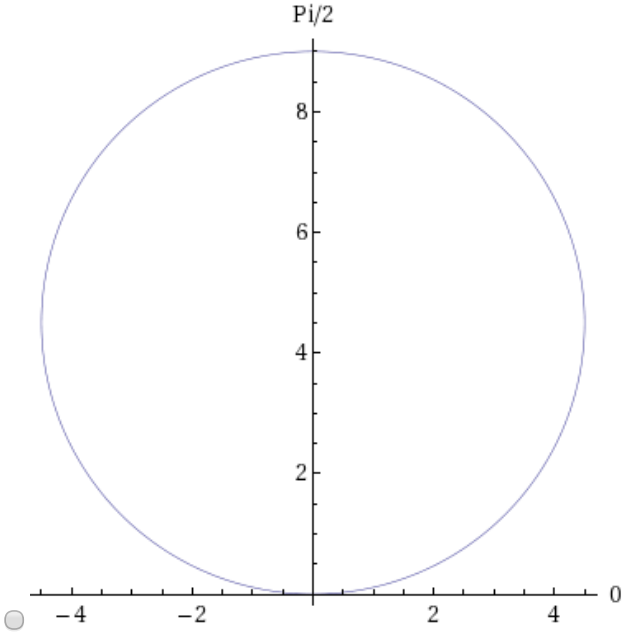


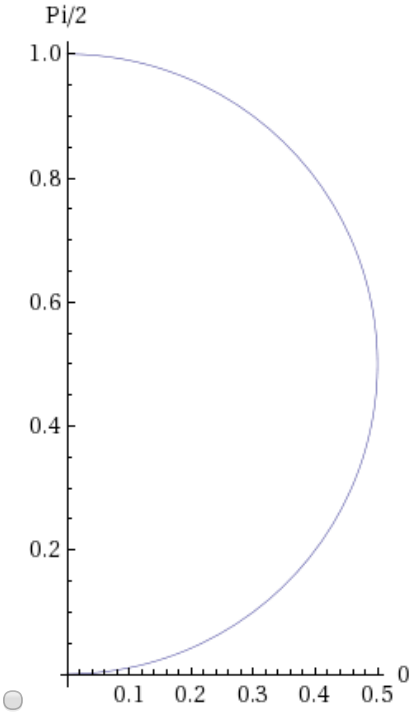


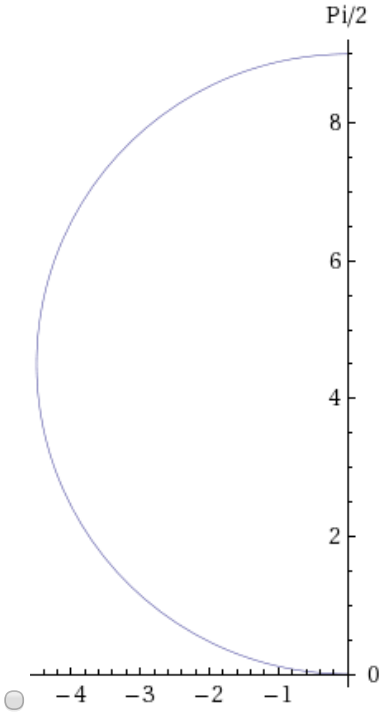


(c) $-\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$









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