

6/27/2017

10.6

WebAssign

**10.6 (Homework)**

**Current Score** : - / 100

**Due** : Wednesday, June 28 2017 11:59 PM CDT

1. -/10 pointsLarCalcET6 10.6.013.

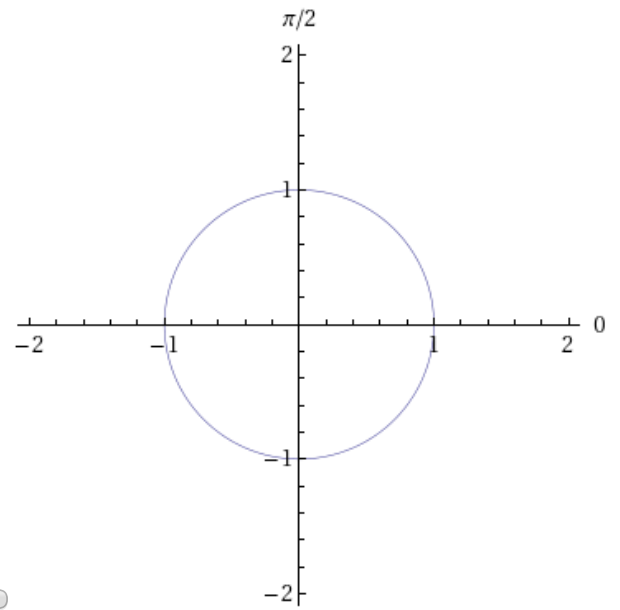
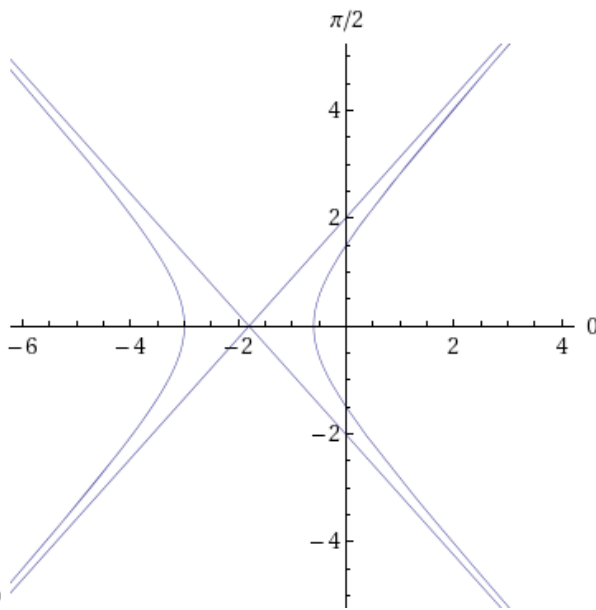
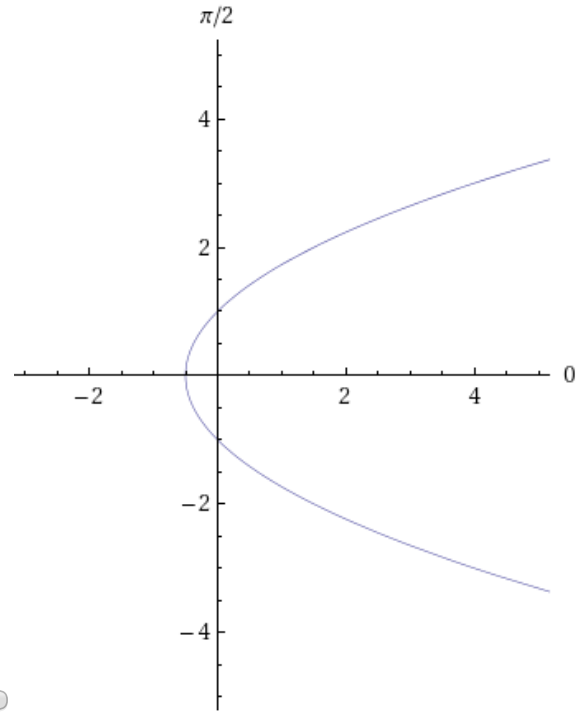
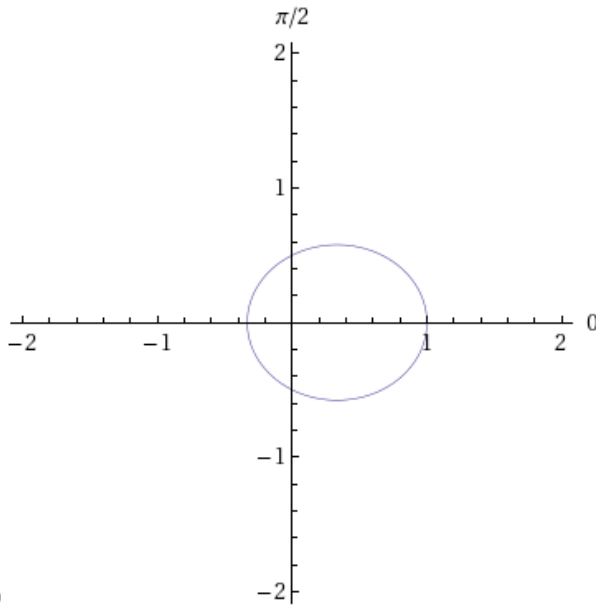
Find the eccentricity  $e$  and the distance  $d$  from the pole to the directrix of the conic.

$$r = \frac{1}{1 - \cos(\theta)}$$

$e =$

$d =$

Sketch and identify the graph. Use a graphing utility to confirm your results.



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2. -/10 pointsLarCalcET6 10.6.016.

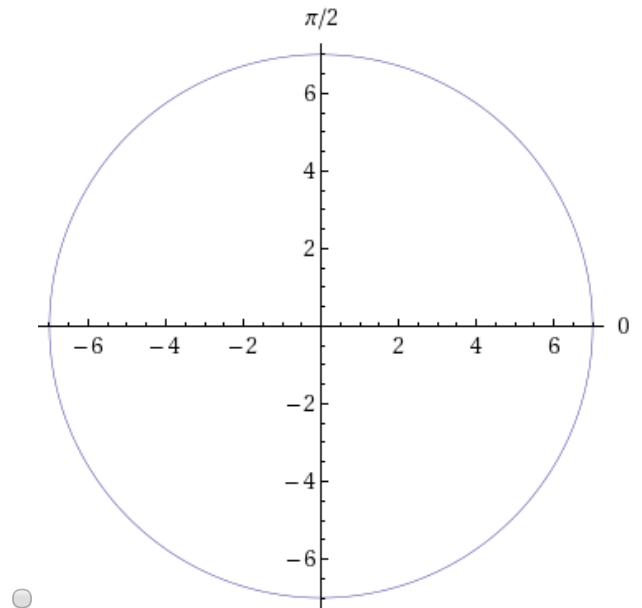
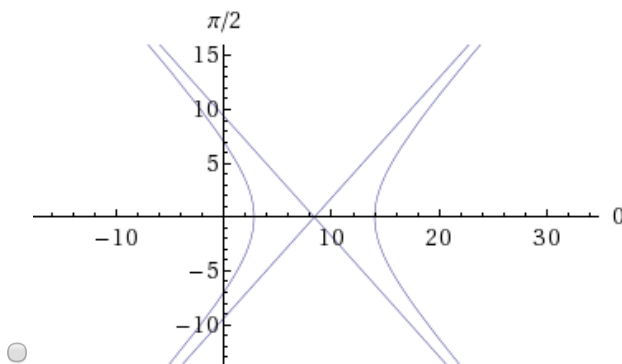
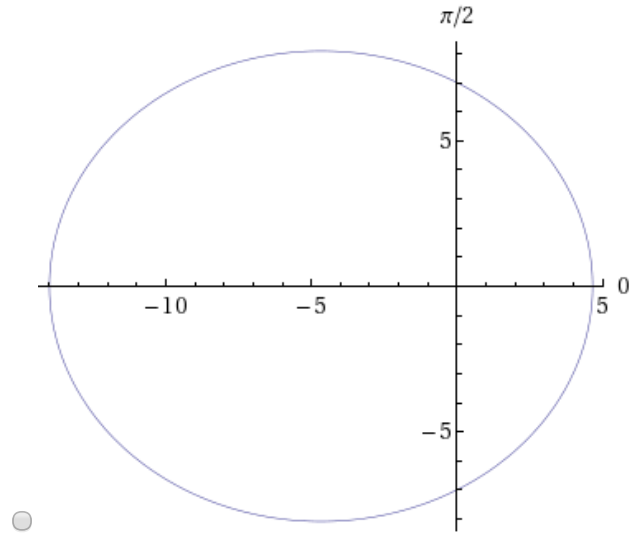
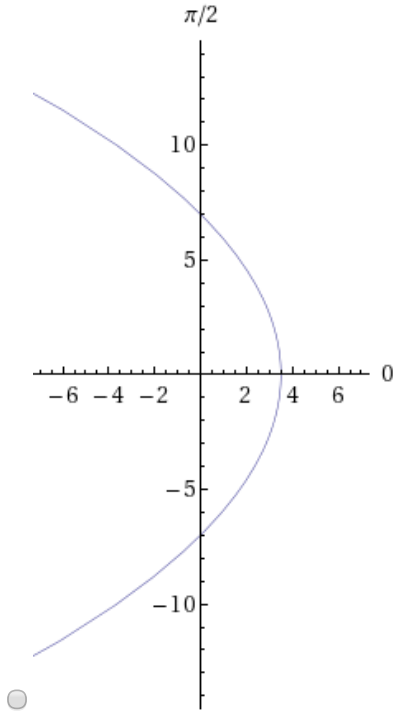
Find the eccentricity  $e$  and the distance  $d$  from the pole to the directrix of the conic.

$$r = \frac{7}{1 + \cos(\theta)}$$

$e =$

$d =$

Sketch and identify the graph. Use a graphing utility to confirm your results.



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3. -/10 pointsLarCalcET6 10.6.020.

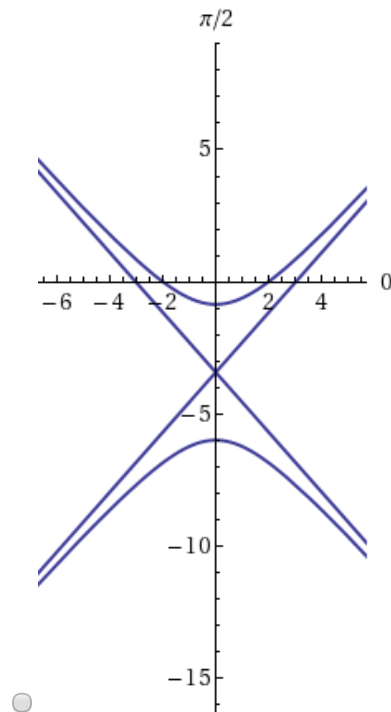
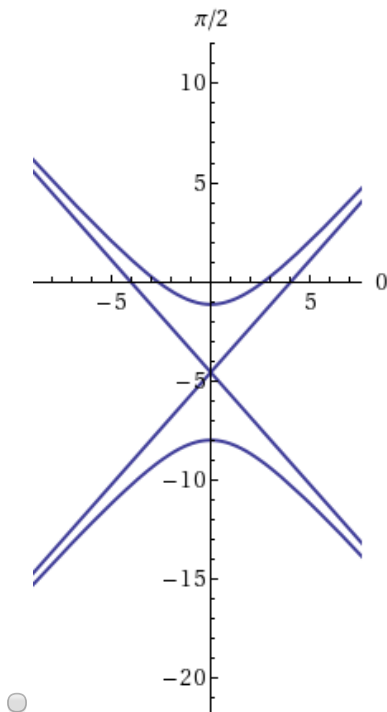
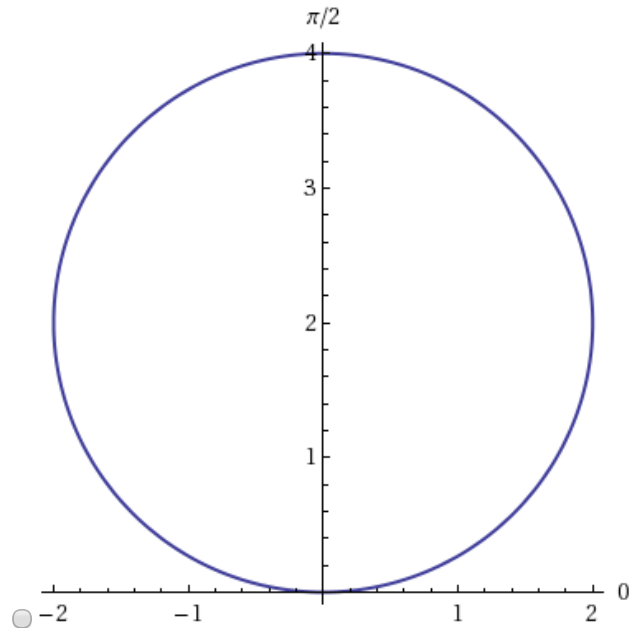
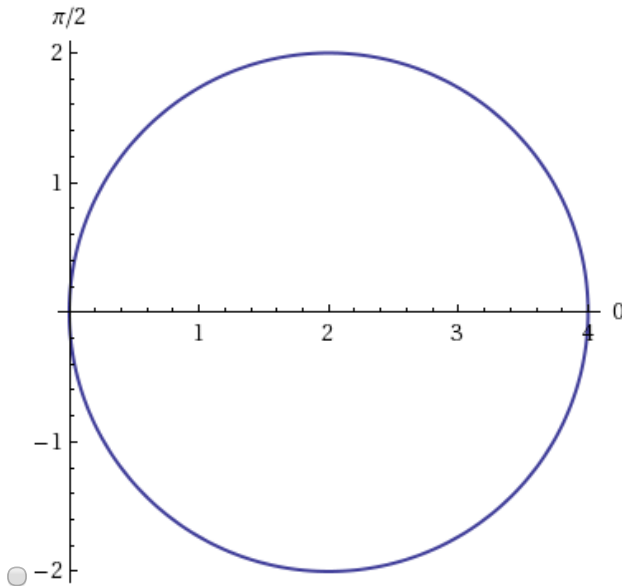
Find the eccentricity and the distance from the pole to the directrix of the conic.

$$r = \frac{-6}{3 + 4 \sin \theta}$$

$$e = \boxed{\phantom{00}}$$

$$d = \boxed{\phantom{00}}$$

Sketch and identify the graph. Use a graphing utility to confirm your results.



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4. -/10 pointsLarCalcET6 10.6.021.

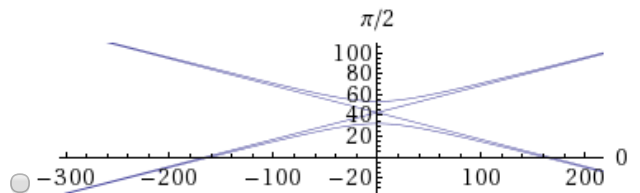
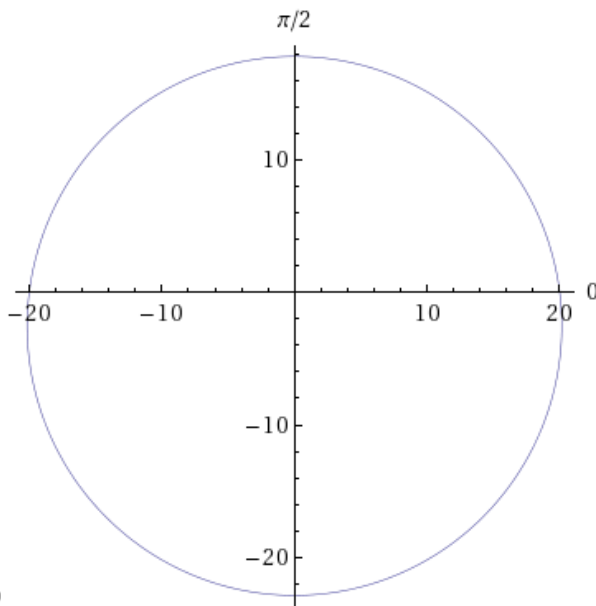
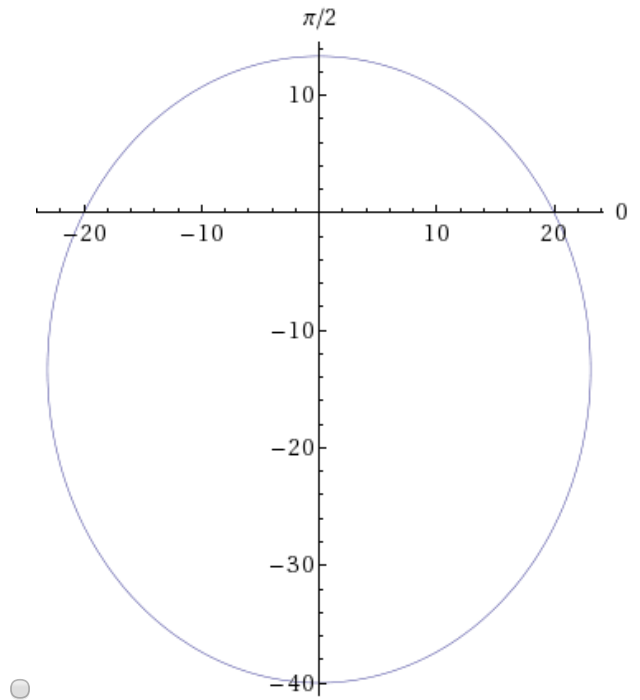
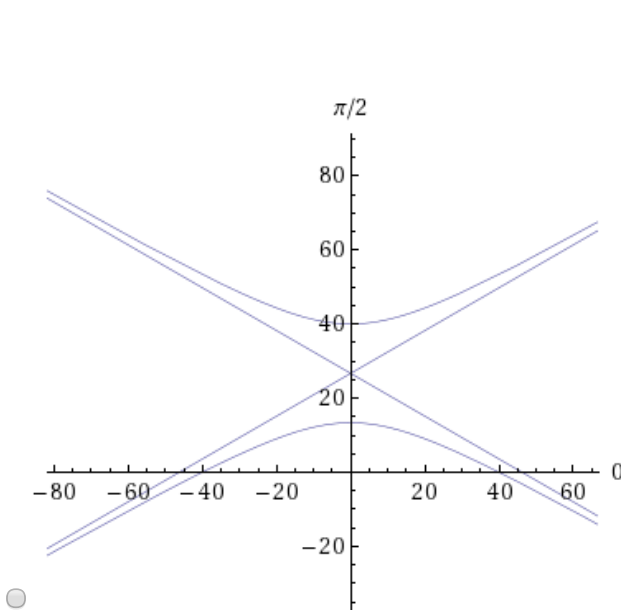
Find the eccentricity and the distance from the pole to the directrix of the conic.

$$r = \frac{160}{-8 + 4\sin \theta}$$

$e =$

$d =$

Sketch and identify the graph. Use a graphing utility to confirm your results.



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5. -/10 pointsLarCalcET6 10.6.031.

Write the equation for the ellipse rotated  $\pi/6$  radian clockwise from the ellipse shown below.

$$r = \frac{7}{7 + 3 \cos(\theta)}$$

$r =$


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6. -/10 pointsLarCalcET6 10.6.032.

Write the equation for the parabola rotated  $\pi/4$  radian counterclockwise from the parabola.

$$r = \frac{4}{1 + \sin(\theta)}$$

$r =$


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7. -/10 pointsLarCalcET6 10.6.033.

Find a polar equation  $r$  for the conic with its focus at the pole. (For convenience, the equation for the directrix is given in rectangular form.)

Conic	Eccentricity	Directrix
Parabola	$e = 1$	$x = -5$

$r =$


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8. -/10 pointsLarCalcET6 10.6.035.

Find a polar equation  $r$  for the conic with its focus at the pole. (For convenience, the equation for the directrix is given in rectangular form.)

Conic	Eccentricity	Directrix
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Ellipse	$e = \frac{1}{2}$	$y = 1$
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 $r =$ 
  


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9. -/10 pointsLarCalcET6 10.6.037.

Find a polar equation  $r$  for the conic with its focus at the pole. (For convenience, the equation for the directrix is given in rectangular form.)

Conic	Eccentricity	Directrix
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Hyperbola	$e = 3$	$x = 1$
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 $r =$ 
  


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10. -/10 pointsLarCalcET6 10.6.039.

Find a polar equation  $r$  for the conic with its focus at the pole.

Conic	Vertex or Vertices
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Parabola	$\left(8, -\frac{\pi}{2}\right)$
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 $r =$ 
  


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