

MAC1140 SEC29 HW 10-15-2007 9.3 9.4

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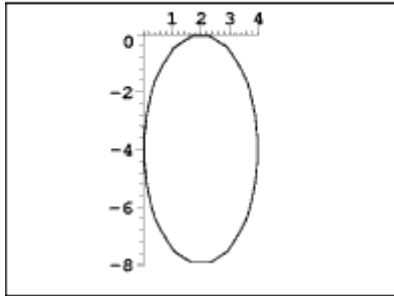
Due: 10-17-2007

Full Name:

Sec#:

Extra Credit Attempted?

[9.3.1cPT] Select the equation of the following graph.



1.

- $\frac{(x-2)^2}{4} + \frac{(y-4)^2}{16} = 1$
- $\frac{(x-2)^2}{4} + \frac{(y+4)^2}{16} = 1$
- $\frac{(x+4)^2}{16} + \frac{(y-2)^2}{4} = 1$
- $\frac{(x+2)^2}{4} + \frac{(y-4)^2}{16} = 1$
- $\frac{(x-4)^2}{16} + \frac{(y-2)^2}{4} = 1$
- $\frac{(x+2)^2}{4} + \frac{(y+4)^2}{16} = 1$

2.

[9.3.3aPT] Find the vertices of the ellipse given by $\frac{(x+3)^2}{45} + \frac{(y-4)^2}{49} = 1$.

- $(-3, 4 \pm 7)$
- $(-3 \pm 2, 4)$
- $(-3 \pm 7, 4)$
- $(-3, 4 \pm 2)$

3.

[9.3.3bPT] Find the foci of the ellipse given by $\frac{(x+7)^2}{4} + \frac{(y+3)^2}{3} = 1$.

- $(-7 \pm 1, -3)$

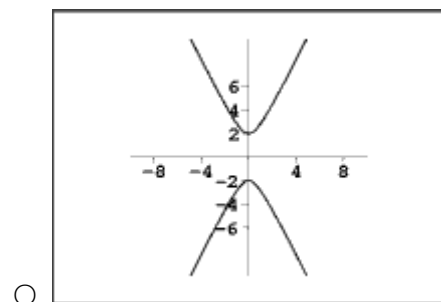
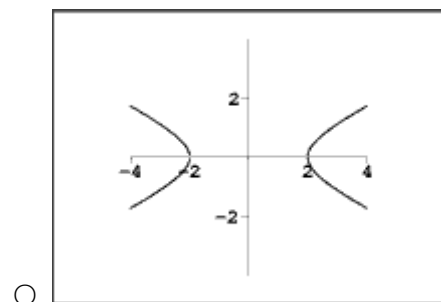
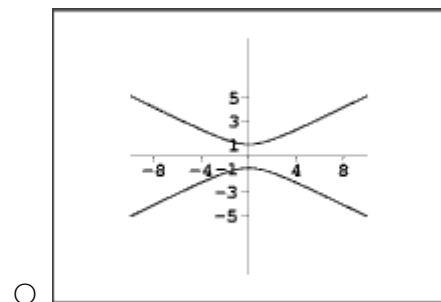
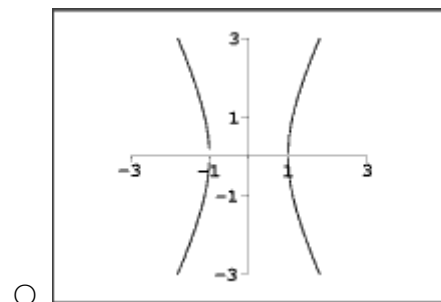
$(-7 \pm 2, -3)$

$(-7, -3 \pm 2)$

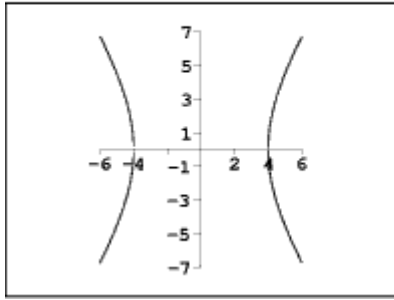
$(-7, -3 \pm 1)$

4.

[9.4.1aPT] Select the graph of $\frac{y^2}{1} - \frac{x^2}{4} = 1$.



[9.4.1bPT]Select the equation of the following graph.



5.

$\frac{x^2}{16} - \frac{y^2}{36} = 1$

$\frac{y^2}{16} - \frac{x^2}{36} = 1$

$\frac{x^2}{36} - \frac{y^2}{16} = 1$

$\frac{y^2}{36} - \frac{x^2}{16} = 1$

6.

[9.4.2aPT]Select the equation of the hyperbola with center at (0,0), focus at (0, -4), and vertex at (0, -2).

$\frac{y^2}{12} - \frac{x^2}{4} = 1$

$\frac{x^2}{12} - \frac{y^2}{4} = 1$

$\frac{x^2}{4} - \frac{y^2}{12} = 1$

$\frac{y^2}{4} - \frac{x^2}{12} = 1$

7.

[9.4.2bPT]Select the foci of the hyperbola given by $\frac{x^2}{4} - \frac{y^2}{21} = 1$.

(0, ±5)

(±5, 0)

(±2, 0)

None of these

(0, ±2)