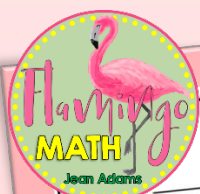


Algebra 2 Honors

Conic Sections



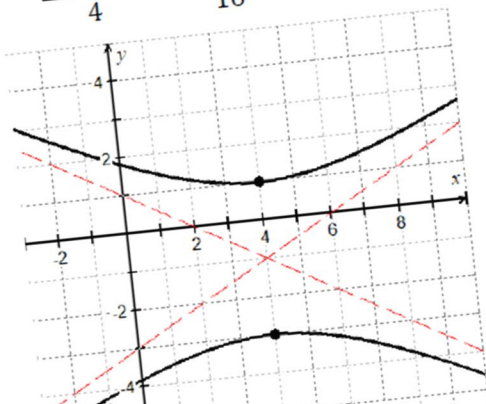
_____ Date _____ Period _____

Warm-Up #2

Lesson 10.4: Hyperbolas

1. Use the graph of the ellipse to answer the following questions.

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



2. Identify the center and the two major vertices.

3. Write the equation for the asymptotes shown as dotted lines in the graph.

Warm-Ups

10

Completely Editable

ALGEBRA 2 CURRICULUM

Scope and Sequence

Unit 10: Conic Sections

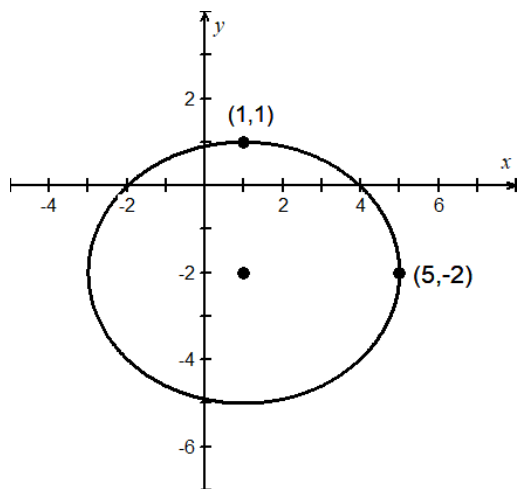
Lesson	Skills & Learning Objectives
[10.1] Parabolas	☐ Find the equation, focus, and directrix of a parabola ☐ Write, analyze and graph the equation of a parabola, including completing the square ☐ Understand the impact of parameters on graphs of parabolas
[10.2] Circles	☐ Write, analyze and graph the equation of a circle ☐ Find the center and radius of a circle on a coordinate plane and use them to graph the circle ☐ Write standard form equations for a circle by completing the square ☐ Solve real-world problems involving circles
[10.3] Ellipses	☐ Write, analyze and graph the equation of an ellipse ☐ Find the equation, foci, major and minor vertices of an ellipse, as well as completing the square ☐ Solve real-world problems involving ellipses
[10.4] Hyperbola	☐ Write, analyze and graph the equation of a hyperbola ☐ Find the equation, foci, major and minor vertices and asymptotes for hyperbolas ☐ Complete the square to write standard form of a hyperbola ☐ Solve real-world problems involving hyperbolas

Name _____ Date _____ Period _____

Lesson I0.3: Ellipses

Warm-Up #1

1. Use the graph of the ellipse to answer the following questions.



2. Identify the center and length of the major axis and the length of the minor axis.

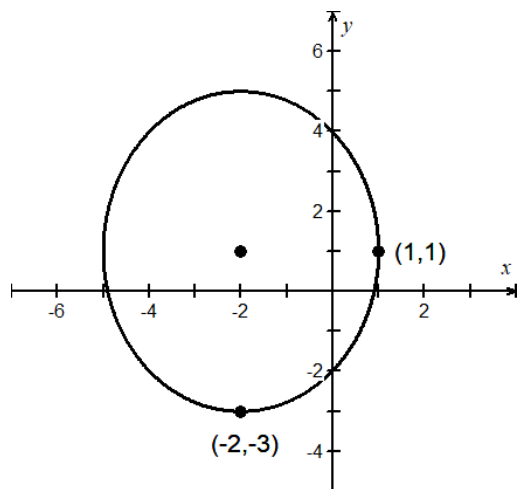
3. Use symmetry of the ellipse to find two more points on the ellipse.

Name _____ Date _____ Period _____

Lesson I0.3: Ellipses

Warm-Up #2

1. Use the graph of the ellipse to answer the following questions.



2. Identify the center and length of the major axis and the length of the minor axis.

3. Use symmetry of the ellipse to find two more points on the ellipse.

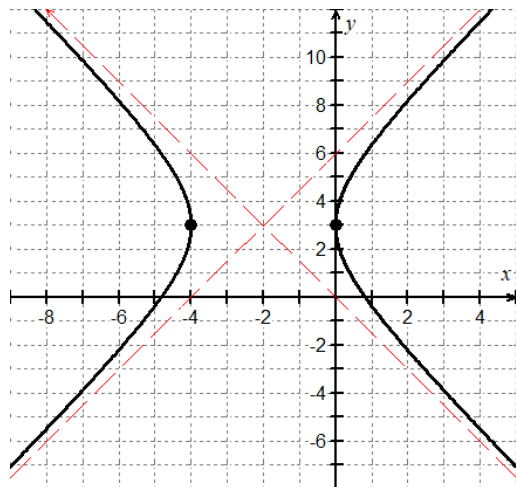
Name _____ Date _____ Period _____

Lesson I0.4: Hyperbolas

Warm-Up #1

1. Use the graph of the hyperbola to answer the following questions.

$$\frac{(x + 2)^2}{4} - \frac{(y - 3)^2}{9} = 1$$



2. Identify the center and the two major vertices.

3. Write the equation for the asymptotes shown as dotted lines in the graph.

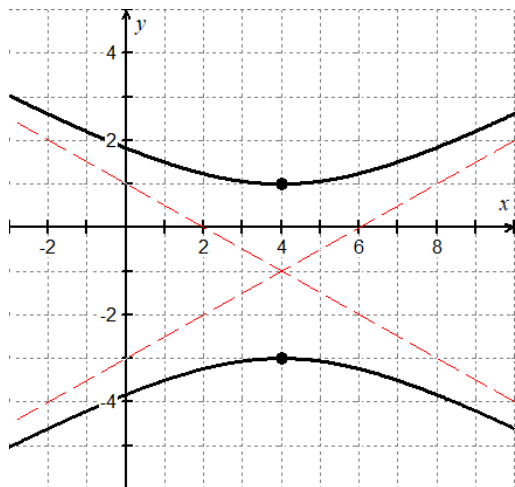
Name _____ Date _____ Period _____

Lesson I0.4: Hyperbolas

Warm-Up #2

1. Use the graph of the ellipse to answer the following questions.

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



2. Identify the center and the two major vertices.

3. Write the equation for the asymptotes shown as dotted lines in the graph.