Algebra 2 Honors

Conic Station 4

Graph the conic section. Be sure to identify all pieces of necessary information.

$$4x^2 + 25y^2 = 100$$

Algebra 2 Honors

Conic Station 6

Graph the conic section. Be sure to identify all pieces of necessary information.

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

Algebra 2 Honors

Conic Station 10

Rewrite the equation in Standard Form. Identify all pieces of necessary information.

$$9x^2 + 16y^2 - 18x + 64y - 71 = 0$$
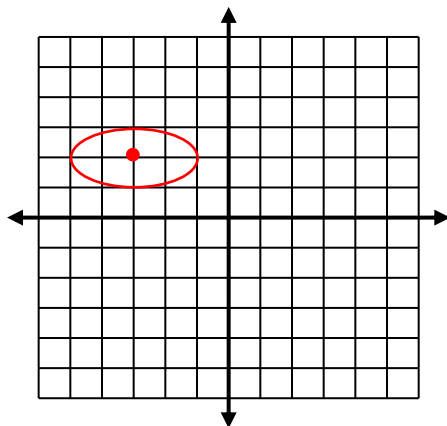
Conic Station 14

Write the equation of the conic section described.

Endpoints of major axis: (2, 2) & (8, 2)
Endpoints of minor axis: (5, 3) & (5, 1)

Conic Station 1

Given the following picture, write the equation of the conic section.

Conic Station 5

Graph the conic section. Be sure to identify all pieces of necessary information.

$$4x^2 - y^2 = 16$$

Conic Station 7

Graph the conic section. Be sure to identify all pieces of necessary information.

$$\frac{(y+1)^2}{25} - \frac{(x-2)^2}{9} = 1$$

Conic Station 11

Rewrite the equation in Standard Form. Identify all pieces of necessary information.

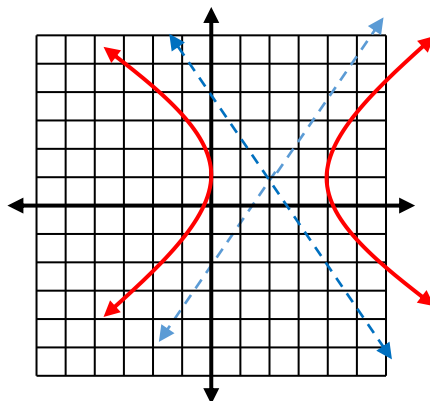$$9y^2 - 4x^2 - 18y + 24x - 63 = 0$$

Conic Station 15

Write the equation of the conic section described.

Endpoints of transverse axis: $(0, \pm 6)$
Asymptotes: $y = \pm 2x$

Algebra 2 Honors

Conic Station 2

Given the following picture, write the equation of the conic section.

Algebra 2 Honors

Conic Station 3

Graph the conic section. Be sure to identify all pieces of necessary information.

$$y^2 = -12x$$

Algebra 2 Honors

Conic Station 8

Graph the conic section. Be sure to identify all pieces of necessary information.

$$6(x + 1)^2 + 12(y - 3) = 0$$

Conic Station 17

Rewrite the equation in Standard Form. Identify all pieces of necessary information.

$$y^2 + 8y - 4x + 8 = 0$$

Conic Station 9

Write the equation of the conic section described.

Focus: (2, 4); Directrix: x = -4

Conic Station 16

Given the following picture, write the equation of the conic section.
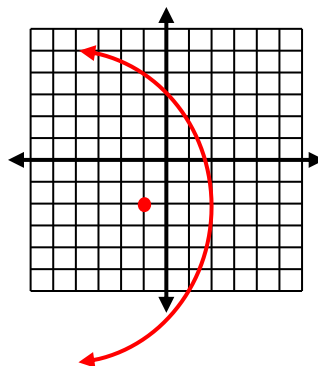
Conic Station 12

Rewrite the equation in Standard Form. Identify all pieces of necessary information.

$$x^2 + y^2 - 8x + 4y + 12 = 0$$

Conic Station 13

Write the equation of the conic section described.

Circle with center on line $x + y = 4$; tangent to both axes

Algebra 2 Honors
Test Review

Conics Stations

Name_____
Date_____
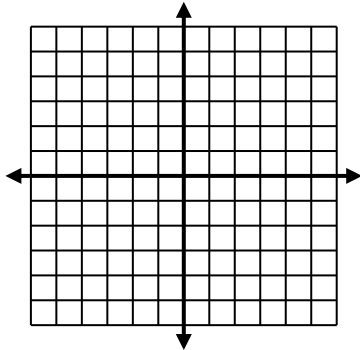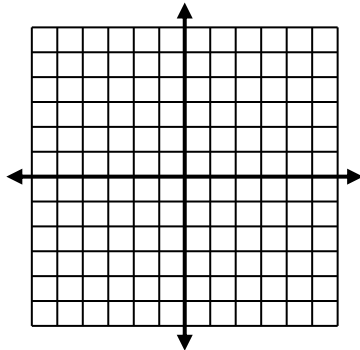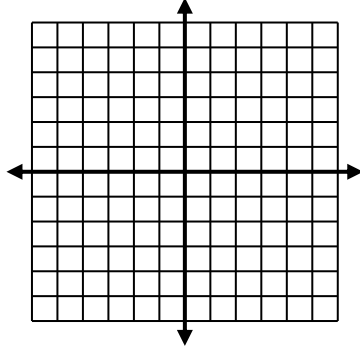
Please copy the original equation/information into each of the numbered spaces below. You only need to graph when asked although choosing to graph to help answer other questions may be done as well. Most questions request "all pieces of necessary information" which includes the following:
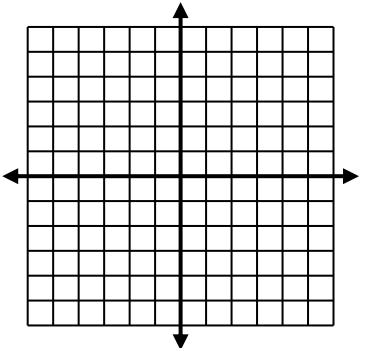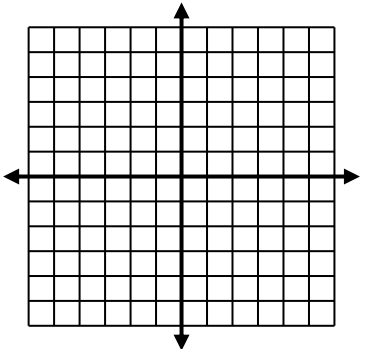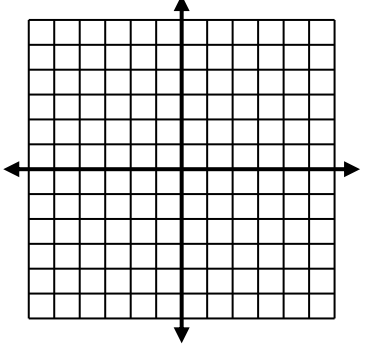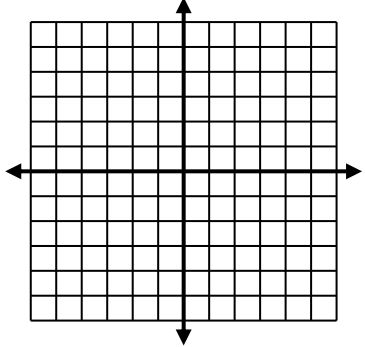
Circles: *Center, Radius, Domain, and Range*
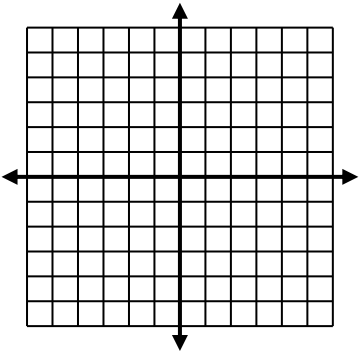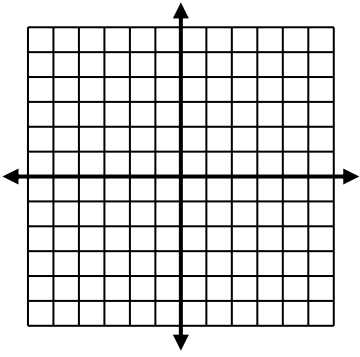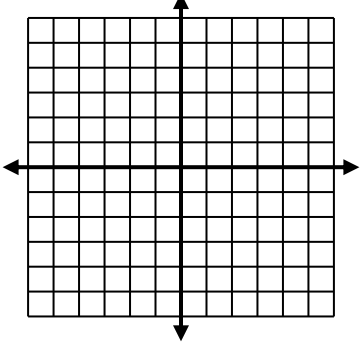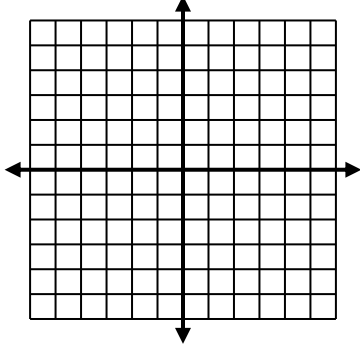**Parabolas:** *Vertex, Focus, Directrix, Axis of Symmetry, Domain, and Range*
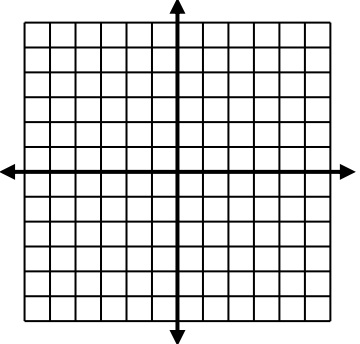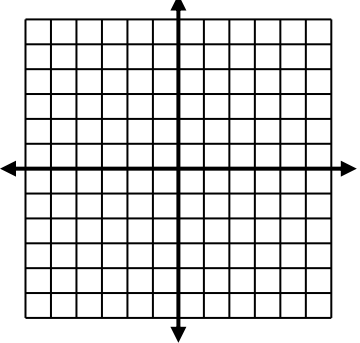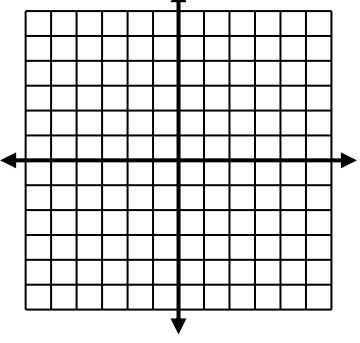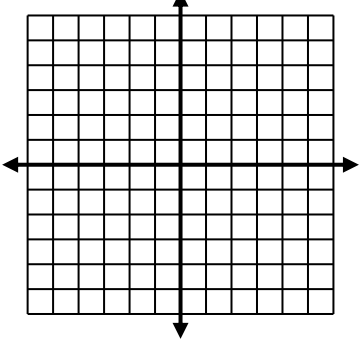**Ellipses:** *Center, Vertices, Co-Vertices, Foci, Domain, and Range*
Hyperbolas: *Center, Vertices, Foci, Equation of Asymptotes, Domain, and Range*

Original Question	Work/Information/Answer	Graph

Original Question	Work/Information/Answer	Graph

Original Question	Work/Information/Answer	Graph

Original Question	Work/Information/Answer	Graph

Original Question	Work/Information/Answer	Graph