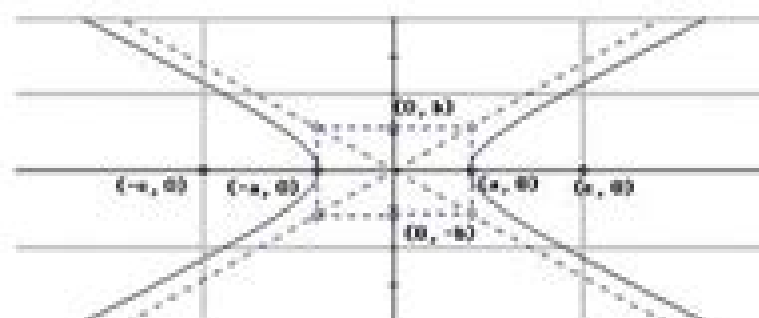


# Lesson One

The equation (in standard form) of a hyperbola centered at the origin with foci  $(c, 0)$  and  $(-c, 0)$  lying on the x-axis is  $(x^2/a^2) - (y^2/b^2) = 1$ , where  $c^2 = a^2 + b^2$ .

The points  $(a, 0)$  and  $(-a, 0)$  are the vertices, and the line segment joining them is the transvers axis. The line segment from  $(0, b)$  to  $(0, -b)$  is the conjugate axis. The hyperbola is symmetric with respect to the origin, and the axes are lines of symmetry.

We can see from the picture below that the branches of the hyperbola approach two lines. These are called asymptotes. A line is an asymptote to a curve if the distance between a point on the curve and the line approaches zero as the point moves farther from the origin. What are the equations of the asymptotes?



You should see that the equations of the asymptotes are  $y = (b/a)x$  and  $y = -(b/a)x$ .

For the hyperbola  $9x^2 - 16y^2 = 144$ , find the vertices, the foci, and the asymptotes. Then draw a graph.

First, we need to put the equation into standard form; that is, the right side should equal 1. To do this, divide both sides by 144.

$$(9x^2/144) - (16y^2/144) = 1$$

$$(x^2/16) - (y^2/9) = 1$$

So,  $a = 4$  and  $b = 3$ . Since  $c^2 = a^2 + b^2$ ,  $c = 5$ . Therefore, our vertices are  $(4,0)$  and  $(-4,0)$ , and the foci are  $(5,0)$  and  $(-5,0)$ . The asymptotes for this graph are  $y = (3/4)x$  and  $y = (-3/4)x$ .

To graph a hyperbola by hand, let's first graph the asymptotes. Draw the rectangle formed by  $x=4$ ,  $x=-4$ ,  $y = 3$ , and  $y = -3$ . By extending the diagonals of this rectangle, we have the asymptotes. Now, label the foci and vertices, and draw in the hyperbola. Check your graph with the graph below.



# Unit 13 Lesson 1 Plot The Hyperbola

**Beverly Langsford Willing, Catherine  
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