

You Make a Difference!



Just like ellipses, hyperbolas have two foci. The foci of a hyperbola are always located on the transverse axis. How do we find these foci? What properties do they have? Let's explore.

1. Consider the ellipse given by $\frac{x^2}{9} - \frac{y^2}{16} = 1$. Is this a vertical or horizontal hyperbola? How long is the transverse axis? How do you know?

horizontal b/c x is first
 transverse axis = $b = 2a$
 $2(3) = 6$



2. Label the center and the two vertices of the hyperbola.

3. In an ellipse, the **sum** of the distances from any point on the ellipse to the foci is constant (the length of the major axis). Is the same true for hyperbolas? Give a convincing argument.

NO → the sum of the distances from point P is much larger than the sum of the distances from one of the vertices

Let's investigate the distances from the right vertex to the foci.

- a. In terms of c , how far away is the right vertex from the right focus?

$c - 3$ units

- b. How far away is the right vertex from the left focus?

$3 - (-c) = 3 + c$ units

- c. What is the difference between these two distances? What other feature of the hyperbola does this value represent?

$(3+c) - (c-3) = 3+c-c+3 = 6$ units → the length of the transverse axis

5. Let's check using a different point on our hyperbola, $(6, \sqrt{48})$. Suppose we know that $c = 5$.

- a. Find the distance between the point and each focus.

$$d = \sqrt{(5-6)^2 + (0-\sqrt{48})^2}$$

$$d = \sqrt{1+48} = \sqrt{49} = 7$$

$$d = \sqrt{(-5-6)^2 + (0-\sqrt{48})^2}$$

$$d = \sqrt{121+48} = \sqrt{169} = 13$$

- b. What is the difference between the distances?

$$13 - 7 = 6$$

- c. How does this relate to your answer in #4c?

it's the same as my answer in #4c

Do you notice any patterns about a , b , and c .

$$a = 3 \quad b = 4 \quad c = 5$$

$$3^2 + 4^2 = 5^2 \rightarrow a^2 + b^2 = c^2$$

a hyperbola is the set of points whose difference of the distances between the point & the foci is the same ($2a$)

$$c^2 = a^2 + b^2$$

Lesson Master Answers Precalculus

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