



# Elementos analíticos y gráficos de la hipérbola

## Retroalimentación

1. Centro:  $C(0,0)$

Focos:

$$F(2\sqrt{6}, 0)$$

$$F'(-2\sqrt{6}, 0)$$

Vértices:

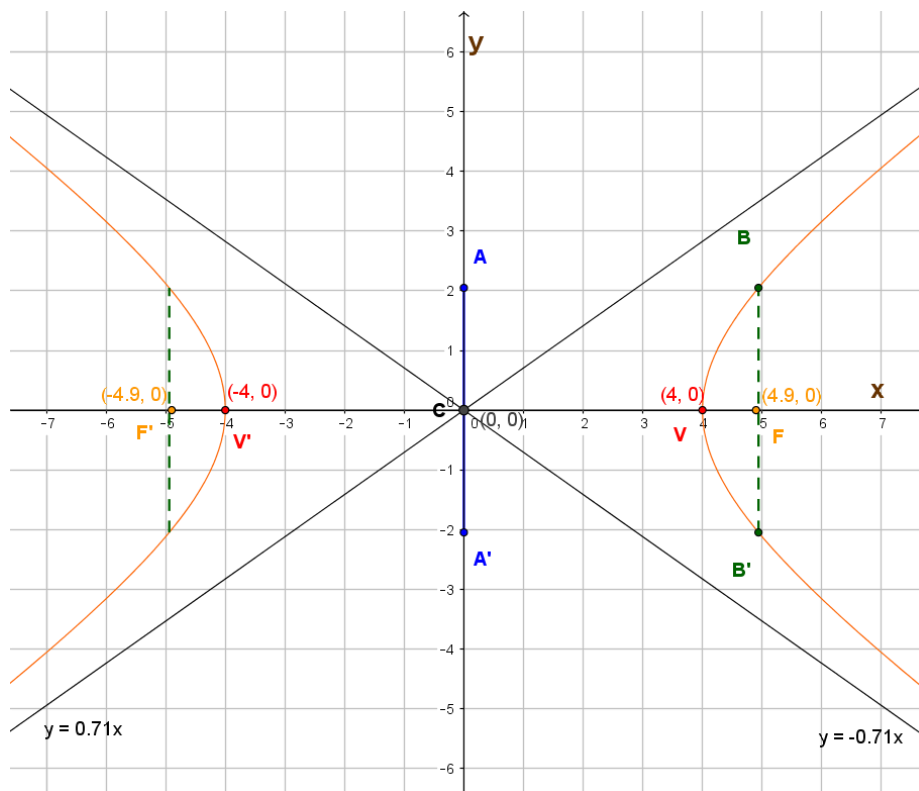
$$V(4, 0)$$

$$V'(-4, 0)$$

$$LLR = 4$$

$$e = \frac{\sqrt{6}}{2}$$

$$\text{asíntotas } y = \pm \frac{\sqrt{2}}{2} x$$



2. Centro:  $C(0,0)$

Focos:

$F(0,10)$

$F'(0,-10)$

Vértices:

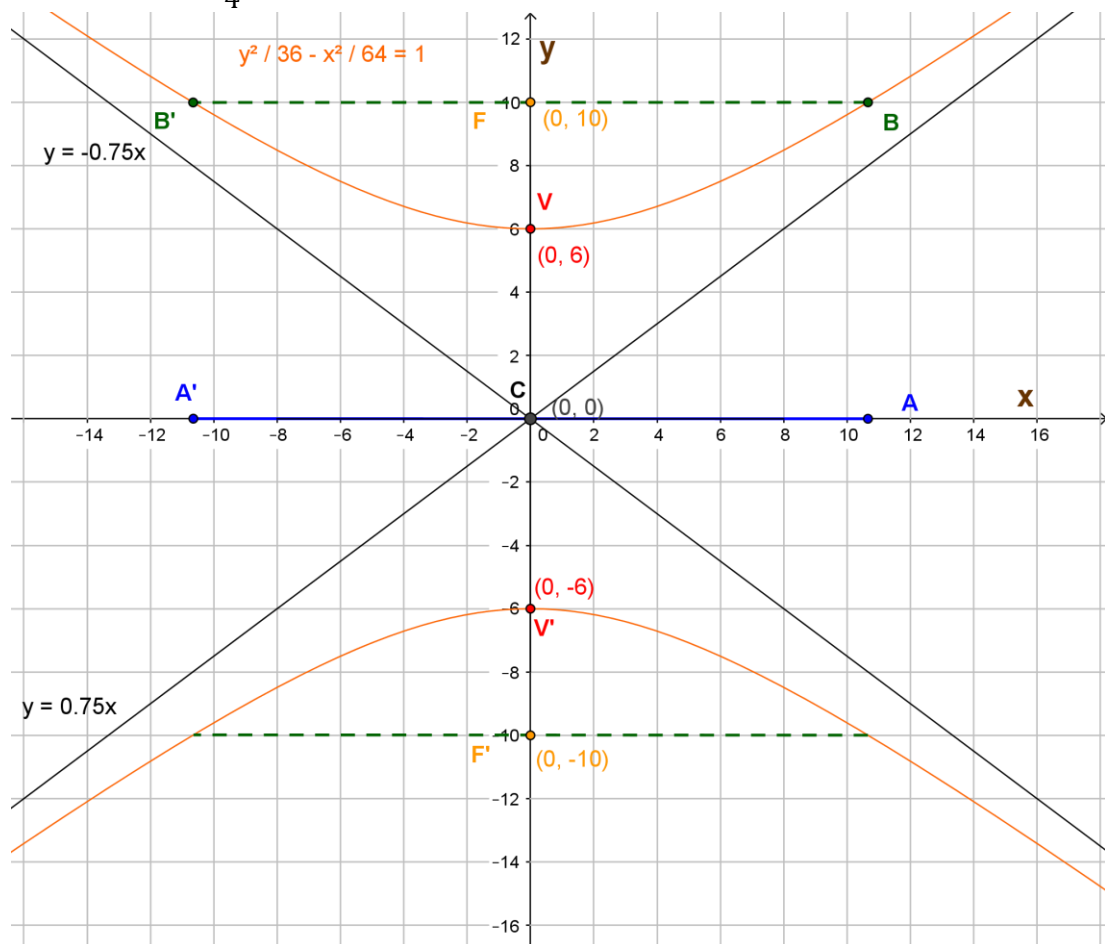
$V(0,6)$

$V'(0,-6)$

$LLR = \frac{64}{3}$

$e = \frac{5}{3}$

asíntotas  $y = \pm \frac{3}{4}x$



3. Centro:  $C(0,0)$

Focos:

$$F(\sqrt{17}, 0)$$

$$F'(-\sqrt{17}, 0)$$

Vértices:

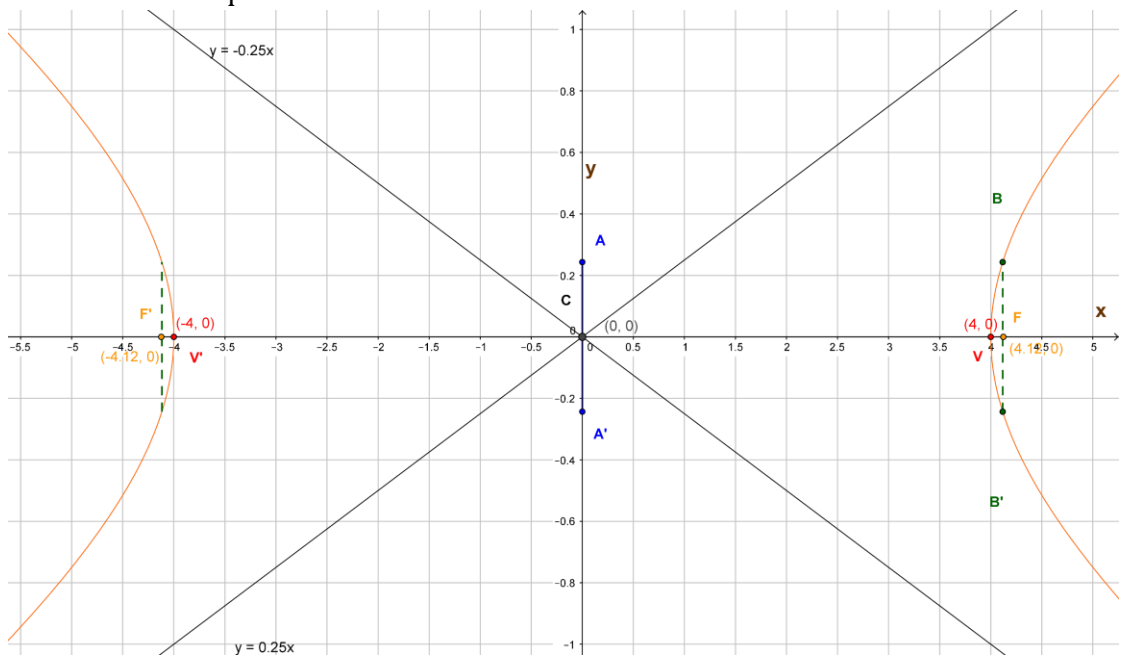
$$V(4, 0)$$

$$V'(-4, 0)$$

$$LLR = \frac{1}{2}$$

$$e = \frac{\sqrt{17}}{4}$$

$$\text{asíntotas } y = \pm \frac{1}{4}x$$



4. Centro:  $C(-2, 2)$

Focos:

$F(2, 2)$

$F'(-6, 2)$

Vértices:

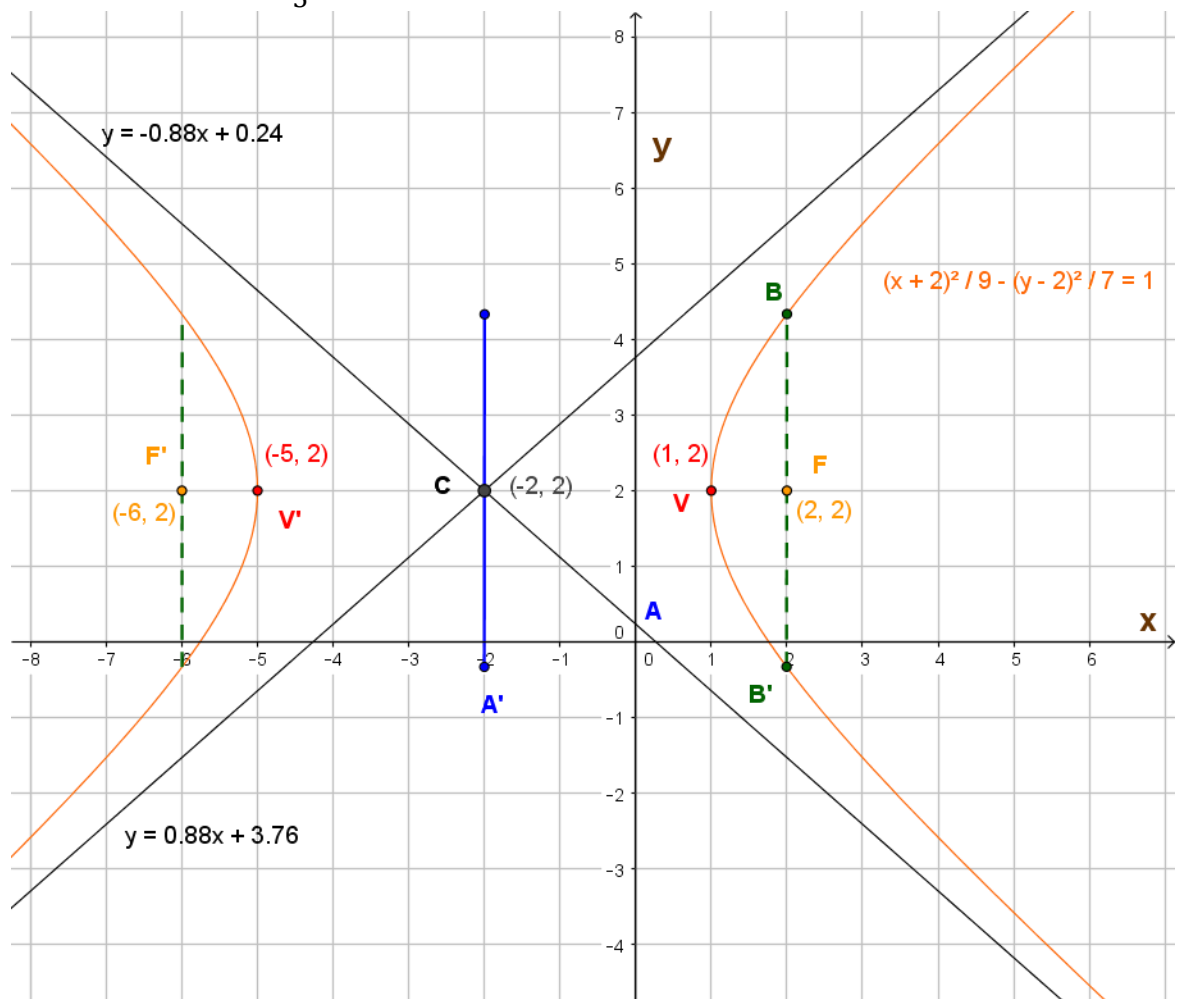
$V(1, 2)$

$V'(-5, 2)$

$LLR = \frac{14}{3}$

$e = \frac{4}{3}$

asíntotas:  $y - 2 = \pm \frac{\sqrt{7}}{3}(x + 2)$



5. Centro:  $C(1,1)$

Focos:

$F(1,6)$

$F'(1,-4)$

Vértices:

$V(1,4)$

$V'(1,-2)$

$LLR = \frac{32}{3}$

$e = \frac{5}{3}$

asíntotas:  $y - 1 = \pm \frac{3}{4}(x - 1)$

$y = \frac{3}{4}x - \frac{1}{4}$

$y = -\frac{3}{4}x + \frac{7}{4}$

