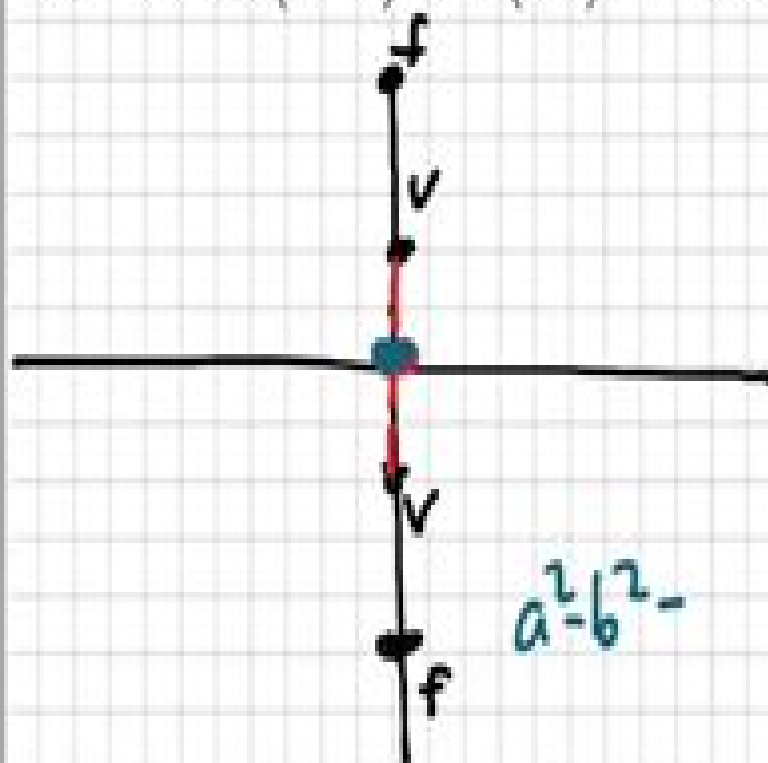


CONIC SECTIONS

HYPERBOLA

ex5: Write the standard form of the equation of the hyperbola with foci at $(0, -5)$ and $(0, 5)$ and vertices at $(0, -2)$ and $(0, 2)$.



~~$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$$~~

$$\frac{y^2}{4} - \frac{x^2}{b^2} = 1$$

$$a^2 - b^2 =$$

$$a = 2$$

$$b =$$

$$c = 5$$

$$a^2 = 4$$

$$b^2 =$$

$$c^2 = 25$$

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