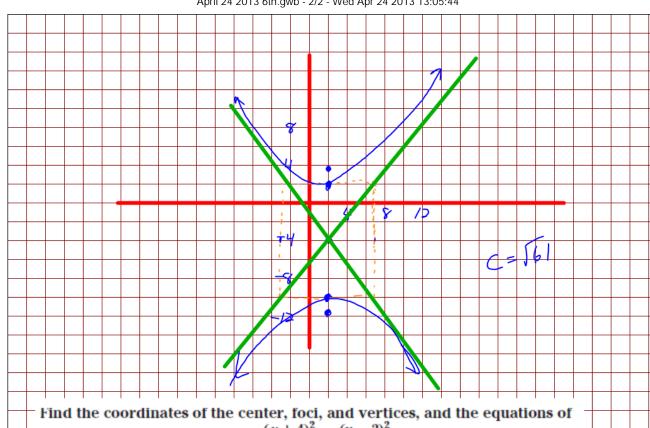


Find the equation of the hyperbola with foci at (7, 1) and (-3, 1) whose transverse axis is 8 units long. k = 2 k = 1

(-3,1) (2,1) (7,1) (-3,1) (2,1) (7,1) $(-3,2)^{2}$

 $\left(-\frac{3+7}{2}, \frac{1+7}{2}\right)$

$$b^{2} = c^{2} - a^{2}$$
 $b^{2} = 25 - 16$
 $b^{2} = 9$



Find the coordinates of the center, foci, and vertices, and the equations of the asymptotes of the graph of $\frac{(y+4)^2}{36} - \frac{(x-2)^2}{25} = 1$. Then graph the equation.

the asymptotes of the graph of
$$\frac{(y+4)^2}{36} - \frac{(x-2)^2}{25} = 1$$
. Then graph the equation.

$$h = 2$$

$$k = -4$$

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