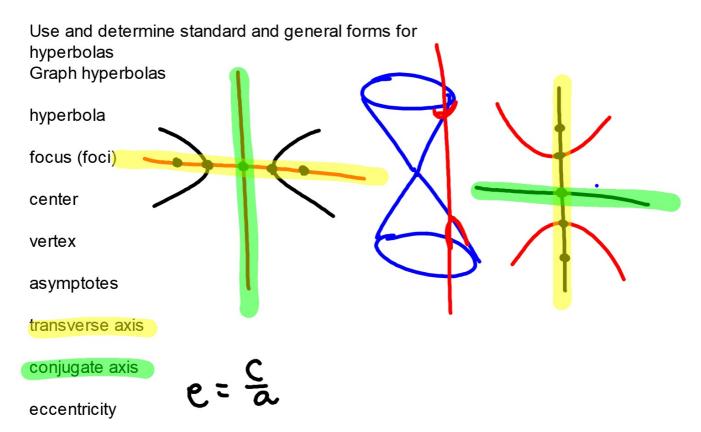
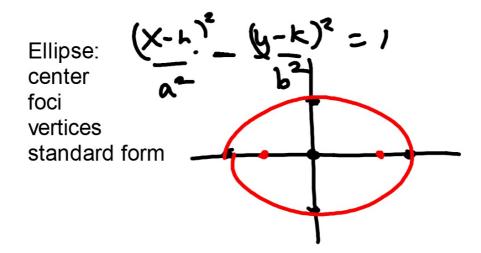
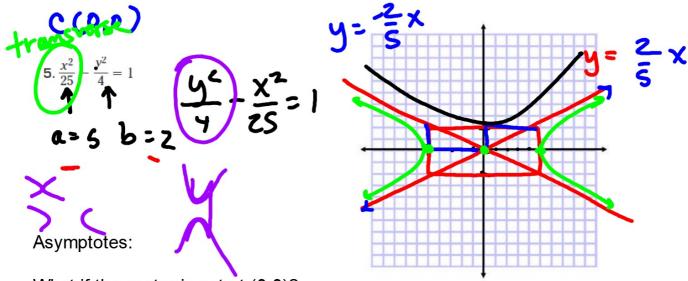
Precalc 10.4



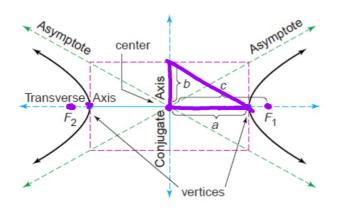
activity: playdoh?



What is different?



What if the center is not at (0,0)? Wider, narrower, etc.?

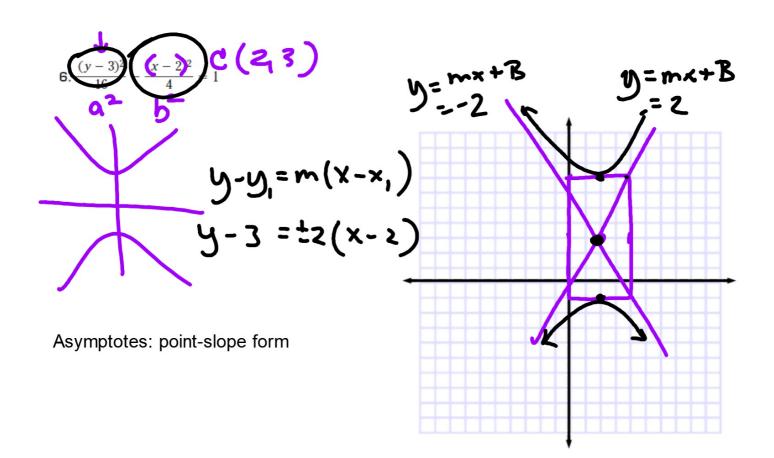


which variable is positive? determines which way to open

Note that c > a *for the hyperbola.*



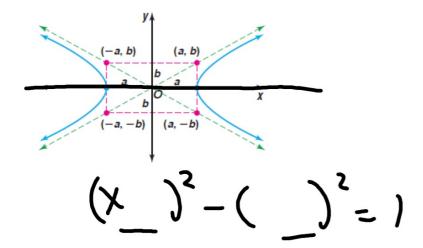
stupid Kroon trick:



point-slope form

Find the coordinates of the center, foci, and vertices, and the equations of the asymptotes of the graph of $\frac{(y+4)^2}{26} - \frac{(x-2)^2}{25} = 1$. Then graph the Find the coordinates of the center, foch, and vertices, the asymptotes of the graph of $\frac{(y+4)^2}{36} - \frac{(x-2)^2}{25} = 1$. Then graph the equation.

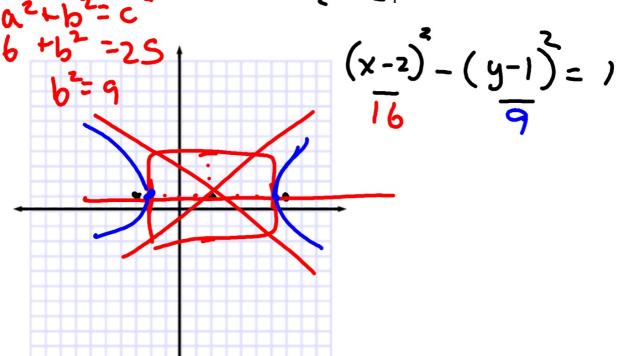
(2,-43/61) LE (3-4/61) (2,-43/61) LV (2,2) 36+25=c2 61 = 62 ±161 = c



transverse axis conjugate axis

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

7 Ore picture is worth 1000 words...



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