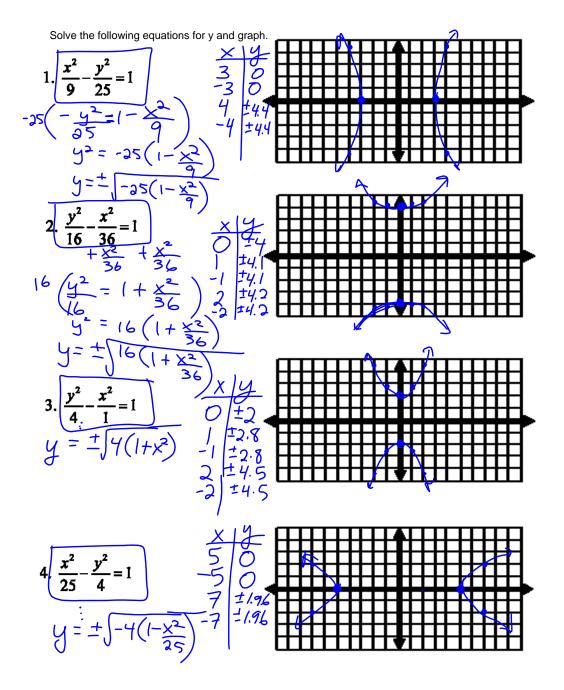
Hyperbola Exploration:



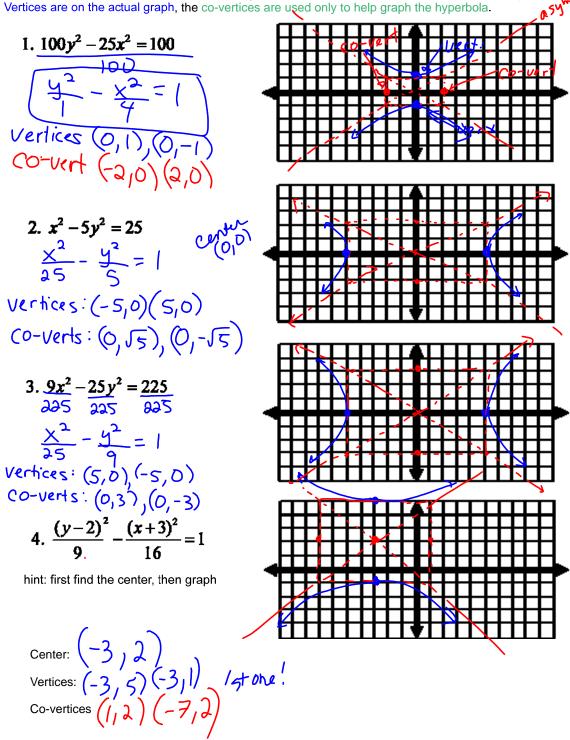
What do the graphs have in common?

How does the hyperbola equation differ from the ellipse equation? How do you know if the hyperbola will open up/down or right/left? $\chi^2 - y^2$ How do you know how far out on the axis to start the hyperbola?

> J of 1st denominator of 1st variable

the standard form s:
$$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$
 or $\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$
Centered at (h,k)

Rewrite the equation into standard form and graph. State the Vertices, and co-vertices of the hyperbola. Vertices are on the actual graph, the co-vertices are used only to help graph the hyperbola.



Put in standard form

