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Goals:

* I can write equations of hyperbolas.
* I can graph hyperbolas.

**HW: Finish WS**

**Equations of Hyperbolas—**every hyperbola has two axes of symmetry, the *transverse axis* and the *conjugate axis*. They two axes are perpendicular at the center of the hyperbola.

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| **Ellipses** | **Both** | **Hyperbolas** |
| -No asymptotes-Find *c* value:$$c^{2}=a^{2}-b^{2}$$-Length of Major/Minor | -Center is the same-FIND length the same way | -2 asymptotes-Finding *c* value: $c^{2}=a^{2}+b^{2}$-Length of Transverse/Conjugate |

