Fill in the blank.

- 1. In a Hyperbola, C represents \_\_\_\_\_\_.
- 2. In a Hyperbola, A represents \_\_\_\_\_\_.
- **3.** In a Hyperbola, the axes are called the transverse axis and the axis.

Find the center, transverse axis, vertices, foci, and the equations for the asymptotes.

4.  $\frac{x^2}{16} - \frac{y^2}{25} = 1$  C , T. axis \_\_\_\_\_\_

Write the equation in standard form and find the center, transverse axis, vertices, foci, and the slope for the asymptotes.

Slope

Find the equation for the hyperbola in standard form given the following information.

- 6. Foci (-5,0), (5,0), DOFR = 8
- 7. Foci (-2,4), (-2,-2), DOFR = 2
- **8.** Foci (0,2), (6,2), Slope of Asymptotes:  $\pm \frac{\sqrt{5}}{2}$