Graph each hyperbola and calculate the coordinates of the vertices, co-vertices and foci and the equations for the asymptotes.

1. 2. 3.

 

Identify the coordinates of the center, foci, vertices, and co-vertices and identify equations for the asymptotes and transverse and conjugate axes for each hyperbola. Then sketch a graph of each hyperbola.

4. 5.

 

Write an algebraic equation for each hyperbola defined by the given information. Then sketch a graph of each hyperbola.

6. Vertices at (4, -2) and (6, -2); Foci at (2, -2) and (8, -2)



7. Vertices at (5, -1) and (5,3); Co-vertices at (4, 1) and (6, 1)

