Name _____

Date _____

Equations of Hyperbolas - Independent Practice Worksheet

Complete all the problems. Find an equation for the hyperbola with the following described features:

- 1. Center (2, 4), vertex (0, 4), and focus (5, 4).
- 2. x-intercepts at x = -10 and x = 4, and foci at (-12, 0) and (6, 0).
- 3. Center (4, 5), vertex (5, 5), and focus (0, 5).
- 4. x-intercepts at x = -4 and x = 2, and foci at (-6, 0) and (4, 0).
- 5. Center (7, 8), vertex (4, 8), and focus (0, 8).
- 6. x-intercepts at x = -3 and x = 1, and foci at (-4, 0) and (2, 0).
- 7. Center (5, 7), vertex (0, 7), and focus (12, 7).
- 8. x-intercepts at x = -9 and x = 5, and foci at (-12, 0) and (8, 0).
- 9. Center (6, 9), vertex (0, 9), and focus (14, 9).
- 10. x-intercepts at x = -8 and x = -2, and foci at (-11, 0) and (1, 0).