Lesson 11.3 Practice: Hyperbolas

School Launch · Algebra II · Unit 11: Conic Sections · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. For $\frac{x^2}{64} - \frac{y^2}{4} = 1$, give the vertices, the foci and the asymptotes. EASY

2. For $\frac{x^2}{64} - \frac{y^2}{16} = 1$, give the vertices, the foci and the asymptotes. EASY

3. For $\frac{x^2}{36} - \frac{y^2}{9} = 1$, give the vertices, the foci and the asymptotes. EASY

4. For $\frac{x^2}{16} - \frac{y^2}{25} = 1$, give the vertices, the foci and the asymptotes. MEDIUM

5. For $\frac{x^2}{64} - \frac{y^2}{36} = 1$, give the vertices, the foci and the asymptotes. MEDIUM

6. For $\frac{x^2}{25} - \frac{y^2}{64} = 1$, give the vertices, the foci and the asymptotes. MEDIUM

7. For $\frac{x^2}{9} - \frac{y^2}{9} = 1$, give the vertices, the foci and the asymptotes. MEDIUM

8. For $\frac{x^2}{49} - \frac{y^2}{4} = 1$, give the vertices, the foci and the asymptotes. HARD

9. For $\frac{x^2}{4} - \frac{y^2}{16} = 1$, give the vertices, the foci and the asymptotes. HARD

10. For $\frac{x^2}{25} - \frac{y^2}{49} = 1$, give the vertices, the foci and the asymptotes. HARD