EXTRA PRACTICE — Exercises

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Unit IX – The Conic Sections Part D – Hyperbolas Lesson 1 – Hyberbolas - Standard Form

Graph the solution set hyperbola for each of the following second-degree equations by using the standard form to identify the center, the rectangle of reference with its diagonals, and the vertices.

1.
$$\frac{x^2}{9} - \frac{y^2}{16} = 1$$
 2. $\frac{(x-8)^2}{9} - \frac{(y-5)^2}{4} = 1$

3.
$$\frac{x^2}{4} - \frac{y^2}{1} = 1$$

4. $\frac{(x+5)^2}{36} - \frac{(y-1)^2}{64} = 1$

5.
$$\frac{(x+1)^2}{4} - \frac{(y-2)^2}{12} = 1$$

EXTRA PRACTICE — Answer Key

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Graph the solution set hyperbola for each of the following second-degree equations by using the standard form to identify the center, the rectangle of reference with its diagonals, and the vertices.

