

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 24 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Properties of Hyperbolas

Identify the requested exact properties of each hyperbola.

1.  $\frac{(x-5)^2}{100} - 1 \cdot \frac{(y-8)^2}{100} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

2.  $\frac{(y+5)^2}{144} - 1 \cdot \frac{(x+1)^2}{1} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

3.  $\frac{(x+1)^2}{36} - 1 \cdot \frac{(y-5)^2}{9} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

4.  $\frac{(y+3)^2}{25} - 1 \cdot \frac{(x+8)^2}{49} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

5.  $\frac{(x-2)^2}{144} - 1 \cdot \frac{(y+4)^2}{81} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

6.  $\frac{(y-3)^2}{49} - 1 \cdot \frac{(x-7)^2}{4} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

7.  $\frac{(x-2)^2}{9} - 1 \cdot \frac{(y-7)^2}{49} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_

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## Properties of Hyperbolas

Identify the requested exact properties of each hyperbola.

8.  $\frac{(y+8)^2}{16} - \frac{(x+5)^2}{64} = 1$

Vertices: \_\_\_\_\_

Foci: \_\_\_\_\_

Opens: \_\_\_\_\_