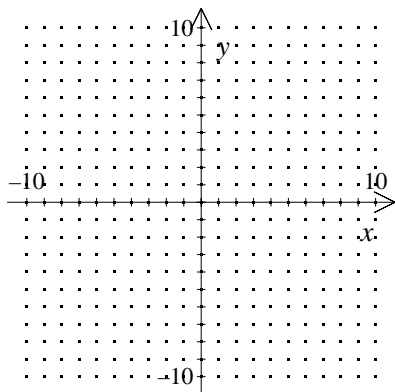


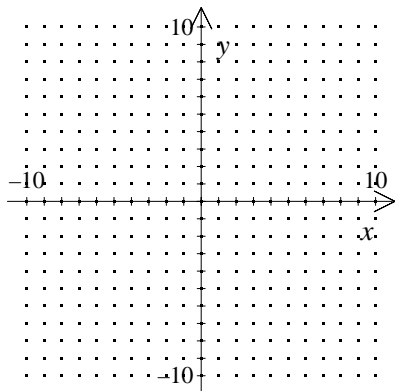
NAME: _____

1. Sketch the graph: $\frac{x^2}{4} + \frac{y^2}{49} = 1$



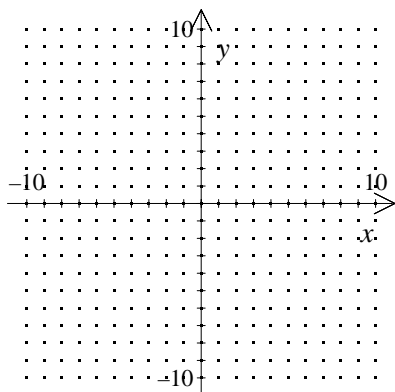
[1] _____

2. Sketch the graph: $\frac{x^2}{36} + \frac{y^2}{64} = 1$



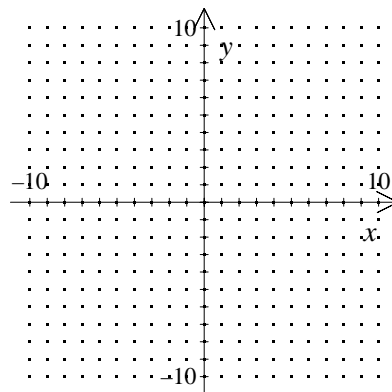
[2] _____

3. Sketch the graph: $\frac{x^2}{64} + \frac{y^2}{25} = 1$



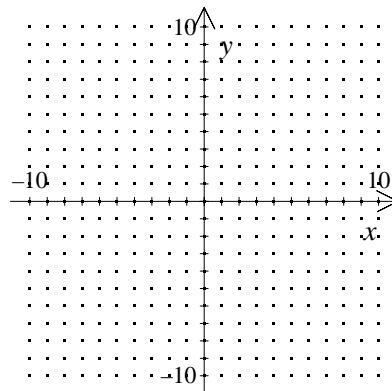
[3] _____

4. Sketch the graph: $\frac{x^2}{49} + \frac{y^2}{9} = 1$



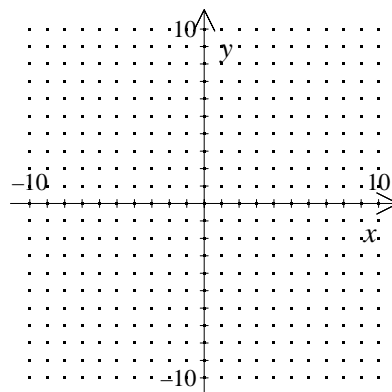
[4] _____

5. Sketch the graph: $\frac{x^2}{16} + \frac{y^2}{100} = 1$



[5] _____

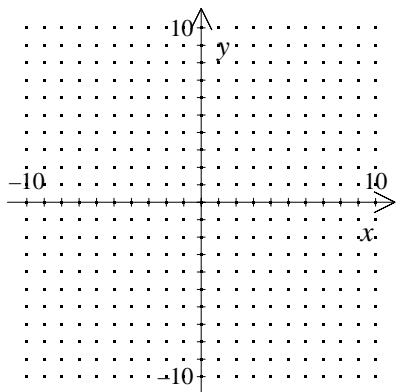
6. Sketch the graph: $\frac{x^2}{25} + \frac{y^2}{16} = 1$



[6] _____

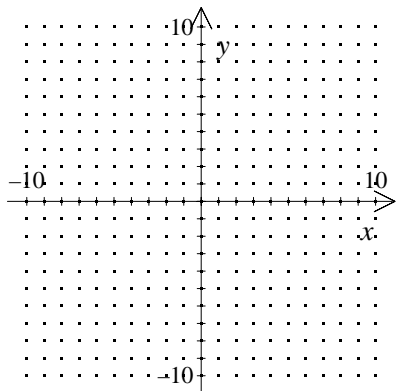
NAME: _____

7. Sketch the graph: $\frac{x^2}{9} + \frac{y^2}{36} = 1$



[7] _____

8. Sketch the graph: $\frac{x^2}{16} + \frac{y^2}{9} = 1$



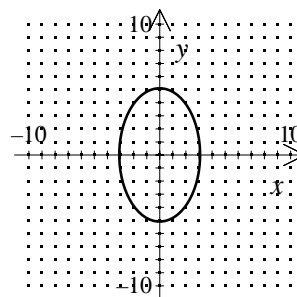
[8] _____

9. The template for a plastic place mat can be modeled by the equation $x^2 + 4y^2 = 36$. Graph the equation. Give its x - and y -intercepts, center and describe its lines of symmetry.

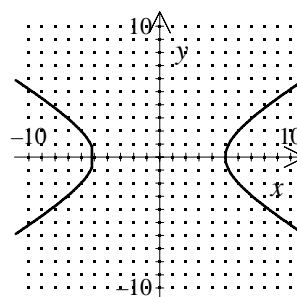
[9] _____

10. Graph: $\frac{x^2}{25} + \frac{y^2}{9} = 1$

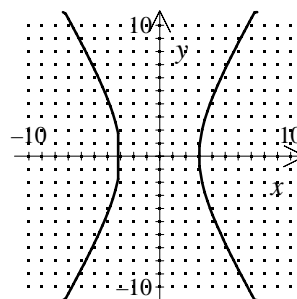
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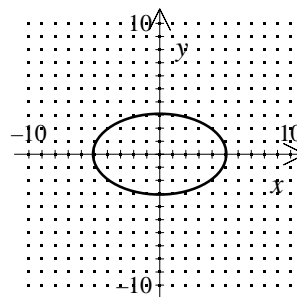
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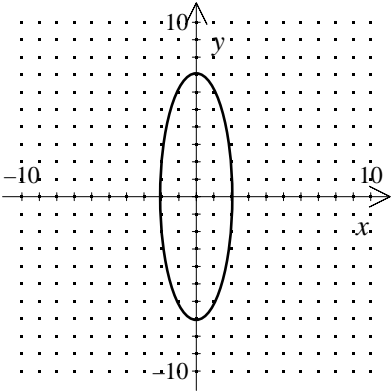
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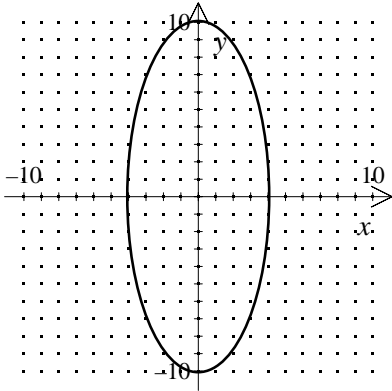
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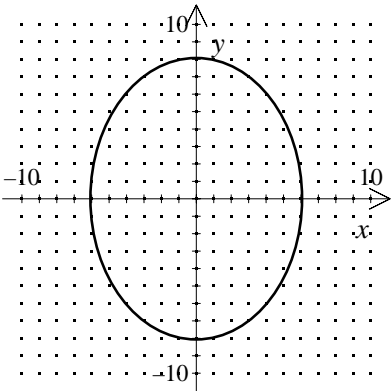
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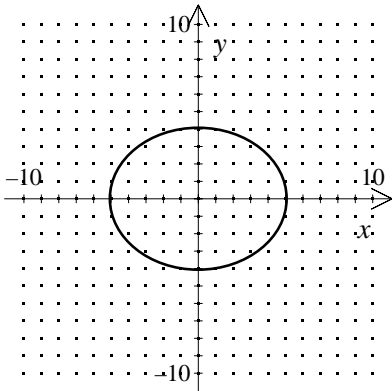
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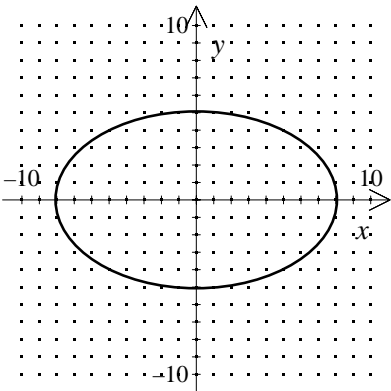
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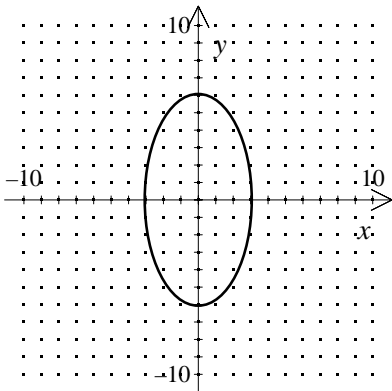
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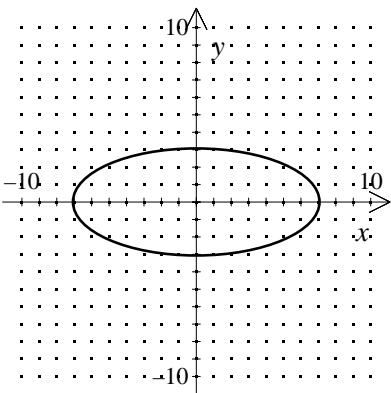
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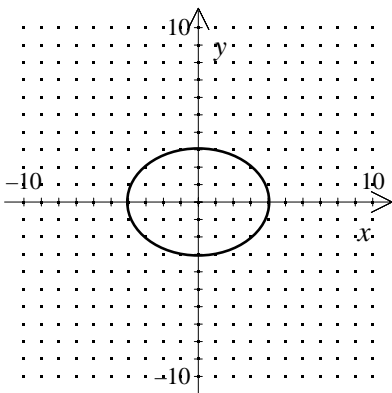
[3]



[7]



[4]



[8]

Answers may vary. Sample: The graph is an ellipse. It has x -intercepts $(6, 0)$ and $(-6, 0)$ and y -intercepts $(0, 3)$ and $(0, -3)$. The center is at $(0, 0)$ and the x - and y -axes are its

[9] lines of symmetry.

[10] D