## Computer Lab: Conic Sections

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## Name:

Period:

To view this activity online, go to www.MATHguide.com and click on...
HELPcenter :: Existing Math Lessons :: [today's date]

1. Go to http://www.mathguide.com/cgi-bin/quizmasters/CSparabolas.cgi and do two problems.
2. Go to http://www.mathguide.com/cgi-bin/quizmasters/CScircles.cgi and do two problems.
3. Go to http://www.mathguide.com/cgi-bin/quizmasters/CSellipses.cgi and do one problem.

4. Go to http://www.mathguide.com/cgi-bin/quizmasters/CShyperbolas.cgi and do one problem.

5. Determine the equation of an ellipse that has these characteristics: $V(3,6)$ and $V(3,-2)$ and length of opposite axis is 10 units. Hints: First, find the center. Next, start building the equation.
6. Determine the equation of a hyperbola that has these characteristics: $\mathrm{V}( \pm 4,0)$ and $\mathrm{F}( \pm 5,0)$. Hints: First, start building the equation. Next, use the focal formula to determine the missing information to complete the equation.
7. Go to http://www.mathguide.com/lessons/ConicSections.html and read the section called "Identifying Conic Sections in General Form." After examining the examples and the flowchart, do three problems at http://www.mathguide.com/cgi-bin/quizmasters/CSi.cgi.
